

<110> Fischer et al.

<120> 123 Human Secreted Proteins

<130> PZ010P2

<150> 60/239,899

<151> 2000-10-13

<150> 09/227,357

<151> 1999-01-08

<150> PCT/US98/13684

<151> 1998-07-07

<150> 60/051,926

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<151> 1997-09-12

<150> 60/058,664

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<151> 1997-09-12

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<151> 1997-09-12

<160> 947

<170> PatentIn Ver. 2.0

<210> 1

<211> 733

<212> DNA

<213> Homo sapiens

<400> 1

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tctcccgagc tctcgaggtc acatgcgtgg tggtaggacgt aagccacgaa gacctgagg 180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
aggagcagta caacagcacg taccggtggtg tcagcgtcct caccgtcctg caccaggact 300
ggctgaatgg caaggagtag aagtgcgaag tctccaacaa agccctccca acccccatcg 360
agaaaaacct ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catcccgagg tgagctgacc aagaaccagg tcagcctgac ctgcctgggtc aaaggcttct 480
atccaaagca catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ccttcttctc ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaaactct tctcatgctc cgtgatgcat gaggctctgc 660
acaaccacta cagcgagaag agcctctccc tgtctccggg taaatgagtg cgacggcgcg 720
gactctagag gat 733

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<210> 2

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (3)

<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

Trp Ser Xaa Trp Ser

1

5

<210> 3

<211> 86

<212> DNA

<213> Artificial Sequence

<220>

<221> Primer_Bind

<223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

<400> 3

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gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc
ccgaaatat ctgccatctc aattag

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60

86

<210> 4

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<221> Primer_Bind

<223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4

gcggcaagct ttttgcaag cctaggg

27

<210> 5

<211> 271

<212> DNA

<213> Artificial Sequence

<220>
 <221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

<400> 5
 ctgcgagattt ccccgaatac tagatttccc cgaaatgatt tccccgaaat gatttccccg 60
 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cggccatccc 120
 gcccctaact cgcgccagtt cgcgccattc tccgccccat ggctgactaa ttttttttat 180
 ttatcgagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggcctt 240
 ttttgagggc ctaggctttt gcaaaaagct t 271

<210> 6
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.

<400> 7
 gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8
 <211> 12
 <212> DNA
 <213> Homo sapiens

<400> 8
 ggggactttc cc 12

<210> 9
 <211> 73
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer with 4 tandem copies of the NF-KB binding site (GGGGACTTCCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

<400> 9

09973278-101001

gcggcctcga ggggactttc cgggggactt tccggggact ttcggggact ttccatcctg 60
ccatctcaat tag 73

<210> 10
<211> 256
<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

<400> 10
ctcgagggga ctttcccgga gactttccgg ggactttccg ggactttcca tctgccatct 60
caattagtcg gcaaccatag tcccgccctt aactccgccc atcccgccc taactccgcc 120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
ggccgcctcg gcctctgagc tattccagaa gtatgagga ggcttttttg gaggcctagg 240
cttttgcaaa aagcct 256

<210> 11
<211> 1142
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (341)..(341)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (369)..(369)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (386)..(386)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (408)..(408)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (412)..(412)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (526)..(526)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (598)..(598)
<223> n equals a,t,g, or c

<220>

0073270.101001

<221> misc_feature
 <222> (676)..(676)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (739)..(739)
 <223> n equals a,t,g, or c

<400> 11
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 cggagcccg agccccgcgc gagccccctg cctcgccgtg ccatgctgcc ccggcgccgg 120
 cgctgaagga tggcgacgcc gctgcctccg cctccccccg ggcacctgcg gctgctgcgg 180
 gtgctgctct cggcgctcgt cctcgccgcc gccctgcgtg aagaagcggg caagtgtcct 240
 gaattgttgc gctgtccccg ggagcctgga ctgtgccctg naaggaacag caaagcgttg 300
 cctgggtgcac atgctctggt gccctgcctc agcctctcca naaggaacag caaagcgttg 360
 ttttgcganc atgcgcgggg ctteangcgg gggcgccggc caaccanac tngaatgag 420
 attgattcct ggcccaagg agcttgcccg gaaaggaatt tggacatcaa ttccgcccta 480
 acccaaggac ggacagcggt tcccgagctg tgccaccttg ggattntcgg caccggggca 540
 gggggctggag ctgggcttcc ctccactccc aggaaccccc acgcccacgc ccacacacna 600
 ccatgggtta cccctgtgtc atccgacccg gtgcacatgt cgcctctgga gccccgggga 660
 gggcaaggcg cggcctcgcg cctgtgtgct atcctggcgt tctgtgtggc cgggtgcagcc 720
 gccctctcgc tagcctcctt ctgctgggtg aggcctgcag gtgagatccg cctgactcag 780
 aaggcccgat agcccaactgc gaaggccctg gctacacctg cagctaccoc ggaatctcgt 840
 tggggaccac gcctgtgcac agagcgcgga gatgtaccac taccagcacc aacggcaaca 900
 gatgtgtctc gtggagcggc ataaagagcc acccaaggag ctggacacgg cctctcgcat 960
 gaggagaagt agggacggaga cttcacgggt tacgagtgcc cgggcatggc ccgacccggg 1020
 gaaatggagg tgcccaacca tctgttcgac caccgcgcac tgcctccggc cctgcccggc 1080
 cccagctcac cgcttgcaat gccatgacct ggaggcgagc agacgcccac ttgctcccgc 1140
 ac 1142

<210> 12
 <211> 1034
 <212> DNA
 <213> Homo sapiens

<400> 12
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 gaggccctgt ggtccccatc ctctgggagaa gtcagctcca gcaccatgaa gggcatcctc 120
 gttgctggta tcaactgagc gctgtgtgca gctgtagaat cctgagctgt cgtgcagtgt 180
 aattcatggtg aaaaatcctg tgtaacacagc attgcctctg aatgtccctc acatgccaac 240
 accagctgta tcagctcctc agccagctcc tctctagaga caccagctcag attataccg 300
 aatattgtct gctcagcgga gaactgcagt gaggagacac acattacagc cttcactgtc 360
 cactgtgtct ctgaagaaca ctttcatttt gtaagccagt gctgccaagg aaaggaatgc 420
 agcaacacca gcgatgccct ggaccctccc ctgaagaacg tgtccagcaa cgcagagtgc 480
 cctgcttggt atgaatctaa tggaaacttc tgcrttgga agcctggaa atgctatgaa 540
 gaagaaacgt gtgtcyttct agttgcagaa ctttaagaatg acattgagtc taagagcttc 600
 gtgtggaagg gctgttccaa cgtcagtaac gccacctgtc agttcctgtc tgggtgaaac 660
 aagactcttg gaggagtcac ctttcgaaag tttgagtggt caaatgtaaa cagcttaacc 720
 cccagctgtc caccacacac ttcccaaac gtgggctcca aagcttccct ctacctcttg 780
 gcccttgcca gccctcctct tcggggactg ctgcccctgag gtcctggggc tgacctttgc 840
 ccagcacccc atttctgctt cctctgaggtc cagagcatcc cctgcgggtg tgacacccct 900
 ttctcctgct ctgcccgcgt taactgcccc gtaagtggga gtcacaggtc tccaggcaat 960
 gccgacagct gccttgttct tcattattaa agcactgggt cattcactga aaaaaaaaaa 1020
 aaaaaaaaaa tcga 1034

<210> 13
 <211> 1274
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1243)..(1243)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1270)..(1270)
 <223> n equals a,t,g, or c

<400> 13
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 aagcccccggt gaagatggtg tctctggtatg tctccagagc cgtggtgctg gtgtttggaa 120
 gtctttatcc tgcataattat tcatatacaag cctgtgaaaac aaaaacacgtg aagggaatag 180
 ttogatggat gatgtactgg attgtttttg ctctctatag tgtgatgaa acagtagccg 240
 atcaaacagt tgctttggtt cccctgtact atgagctgaa gattgtcttt gtcatatggc 300
 tgctttctcc ctataccaaa ggagcaagtt taatatatag aaaattcctt catccacttc 360
 tttcttcaaa ggaagggag attgatgatt atattgtaca agcaaggaa cgaggctatg 420
 aaacatcggt aaactttgga cggcaaggtt taacacctgc agckaactgct gctgttactg 480
 cagcagtaaa gagccaagga gcaataaact aacgttttaag aagcttcagt atgcatgatt 540
 taacaactat ccaaggtgat gagcctgtgg gacaaagacc ataccaacct ctaccagaag 600
 cmaaaaaagaa aagtarccag cccccagtga atcagcmgtt tatggaattc cactgraaga 660
 cggrgatggw raacacgatk aagaagcaga gggggccatg tcagataatg agatgttaac 720
 acacaaaggg cttcgaaagt cgcaaacgat gaaatctgtg aaaaccacca aaggccgcaa 780
 agagggtcgg tacgggtcac taaaatacaa agtgaagaaa cgaccacaag tgtattttta 840
 gtcatctaca cgtcaaatat cccaagacag attatgctaa atacatcgac ttatctctct 900
 aacatgatatt attcaggatt tacacattaa aatgattatt taaattgtgg cagtgtatgg 960
 gttttacttc atgaattctaa attgttttta tttcctgtaa caattgtctc caaatattga 1020
 ctactaaaag cagttctcgca agatgtacta aatatgtata ttagaatta tagaaaaatca 1080
 tttgttcogt tttcaaatct atcaacagcc tagagtgcct gagataaag atgaaacaca 1140
 aatccacagt atactgtaaa ggagcctttt tacggttcag gataaatacag cctttgtgat 1200
 gtactgtggt tacctccttt tgtgtgtgat ctggttaatta aantagggcc cagattcagc 1260
 aagtgcacat acaa 1274

<210> 14
 <211> 968
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (904)..(904)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (907)..(907)
 <223> n equals a,t,g, or c

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 acgggaaaaat gtgcccgtg tgtggggctc tccctcatta cctctgcct cgtctgcatt 120
 gtggccaaag cctctcgtct ggtacctaag ggggagacct cctggacca caaccaacct 180
 ctcagcttgc aagtctggct catggggcggc ttcatgtggc ggggacctaa ggtactgtgt 240
 ccagggttgc cagcgttctg ggcagggggc aagggtcgtg gtggtctgg gtgctgtgga 300
 aacgcgtgca ggaatgctgc ctccgtcttc tccctcggct tcgggtgctg tgggtccatc 360
 tactgcctct cgggtgctcg agctggggctc cgaaatggac ccagatgctt aatgaacggc 420
 gaagtggggct accactctga agacacccgc ggagcttact tgctcaaccg cactctatgg 480
 gatcgggtgc agggcggccc tcgcgtggct cccctggaatg tgacgctctt ctctgctggt 540
 gtggccgcct cctgcctgga gatagtaact tgtgggatcc agctgggtgaa cgcgaccatt 600
 ggtgtcttct gcggcgattg caggaaaaaa caggacacac ctcaactgag cctcaactgac 660

cgcggggtta	cacctgtctcc	ttcctggagc	ctcactccct	tgctcgctag	aataaactgc	720
tttgcgtctc	caaaaaaa	aaaaaaaac	tcgagggggg	gcccggtacc	caattcgccc	780
tatagttagt	cgtattacaa	ttcactggcc	gtcggtttac	aactcgctga	ctgggaaaaac	840
ctgcgggtta	cccaacttaa	tcgccttgca	gcacatcccc	ctttcgccag	ctggcgtaaat	900
aacnaanaag	cccgaccga	tcgccttcc	caacagttgc	gcagcctgaa	tggcgaatgg	960
caaattgt						968

<210> 15

<211> 801

<212> DNA

<213> Homo sapiens

<400> 15

gaattcggca	cgagtgagga	tgcaactgacc	ttccttgcaa	gagcctttcc	ctgaagttgg	60
gctcctgaga	gaagttctga	acatggctat	ccctgccttt	tcactctgtc	agcagatttc	120
ttcagcagct	gctctacaaa	tatgcaatgg	accctttaag	cattttcctc	ttacagtgag	180
cacaaatgta	agctttgtca	gcagatgcca	ctggagcagc	attgcagaag	aaagcgagtt	240
ctctcttcctg	attttgggtg	gctacttttc	ttcttcttgc	tcagctgcga	tatatccatca	300
gtgggtactat	gtataagacc	atccccgtgt	gccctgccct	accacgtgcc	cagagggcaca	360
tcctctcactg	actatttggc	ctgattctga	gctgtggccc	accttctcac	agccctgcga	420
cacaggcaact	gtgtgtctca	ggcctcacgt	ccccagcagt	ggcctgtgag	tgccacttagc	480
cacagcctca	gtttgcctga	gctccaaaga	attgactctc	atttgccagc	cagctatgga	540
ccagctctctc	ggctcctgaa	aacagcagcg	ttctctgaca	tctagtggac	tgcaaacaca	600
ctttctccaa	caaggcctga	ccccagcctt	aaggagagaa	ccgtctttcc	gagttgtctt	660
tccttgggta	ctctccctca	atcctcggtt	acccttgaaa	gttctcttta	cattgtttata	720
gttatctctc	tatcaactgtc	gaataatttt	ttatattaaa	cttctcttgc	tttacattaa	780
aaaaaaaaaa	aaaaaactcg	a				801

<210> 16

<211> 1198

<212> DNA

<213> Homo sapiens

<400> 16

ccacgcgtc	cgaggagaa	ctgcactctg	ttgagctcca	ggcgccagtg	gaggggaggga	60
gtgaaggagc	ttctctgtacc	caaggaaaagt	gcagctgaga	ctcagacaa	attacaatga	120
accaactcag	cttctctgctg	tttctcatag	cgaccaccag	aggatggagt	acagatgagg	180
ctaatactta	cttcaaggaa	tggacctgtt	cttctgtctc	atctctgccc	agaagctgca	240
aggaaatcaa	agacgaatgt	cytagtgcat	ttgatggcct	gtattttctc	cgactctgaga	300
atggtgtttat	ctaccagacc	ttctgtgaca	tgacctctgg	gggtggcgcc	tggaacctgg	360
tgccagcgtg	gcatgagaat	gacatgcgtg	ggaagtgcac	gggtggcgat	cgctgggtcca	420
gtcagcaggg	cagcaaaagca	gactaccag	agggggagcg	caactgggcc	aactacaaca	480
cttttggatc	tgacagagcg	gccacgagcg	atgactacaa	gaacctgggc	tactacgaca	540
tcacggccaa	ggacctgggc	atctggcagc	tgcccaataa	gtccccatg	cagcactgga	600
gaaacagctc	ctgmbtgagg	taccgcacgg	acactggctt	cctccagaca	ctgggacata	660
atctgttttg	catctaccag	aaatatccag	tgaatatgg	agaaggraag	tgttggactg	720
acacggccc	gggtatcccc	gtggtctatg	attttggcga	cgcccagaaa	acagcatctt	780
attactcacc	ctatggccag	cggaatctca	ctcggggatt	tgttcagctc	agggatatta	840
ataacgagag	agcagccaac	gccttgtgtg	gtccaatgag	ggtaaccgga	tgtaacctgt	900
agcaccactg	cattggtgga	ggaggatact	ttccagagcg	cagtcgccag	cagtggtggag	960
atttttcttg	ttttgatttg	agtggatatg	gaactcatgt	tggttacagc	agcagccgtg	1020
agataactga	ggcagctgtg	cttctattct	atcggttgaga	gttttggggg	agggaaacca	1080
gacctctctc	cccaaccatg	agatcccaag	gatggagaac	aacttcccca	gtagctagaa	1140
tgtaaatggc	agaagagaaa	acaataaatc	atattgactc	aaaaaaaaa	aaaaaaaaa	1198

<210> 17

<211> 613

<212> DNA

<213> Homo sapiens

<220>

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<221> misc_feature
<222> (25)..(25)
<223> n equals a,t,g, or c

<400> 17
gaattcggga cgagcgggac gcggnntgaag atagcctgagc gactgtccgg gcggaacacg      60
gttgacgacg tcccagtaga ccaggagctc cgggaggcag ggcgggcccc acgtcctctg      120
cgcaccaccc tgagttggat cctctgtgag ccaccctcga gttggatcca gggctagctg      180
ctgttgacct ccccaactccc acgctgccct cctgcctgca gccatgacgc cctctgtcac      240
cctgatcctg gtgttcctca tgggcttacc tctgtgcccag cccttggaact gccacgtgtg      300
tgccatacaac ggagacaact gcttcaaccc catgcgctgc ccggctatgg ttgcctactg      360
catgaccacg cgcacctact acacccccac caggatgaag gtcagtaagt cctgcgtgcc      420
ccgctgcttc gagactgtgt atgatggcta ctccaagcac gcgtccacca cctcctgctg      480
ccagtacgac ctctgcaacg gcaccggcct tgcacccccg gccaccctgg ccttggtccc      540
catcctctcg gccacctctt ggggtctcct ctaaagcccc cgaggcagac caactcaaga      600
acaaagctct cga                                     613

<210> 18
<211> 1621
<212> DNA
<213> Homo sapiens

<220>
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<222> (527)..(527)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (542)..(542)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (553)..(553)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (701)..(701)
<223> n equals a,t,g, or c

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<221> misc_feature
<222> (731)..(731)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (906)..(906)
<223> n equals a,t,g, or c

<400> 18
ggcacaggcg cggcctgcgg ctctttggga actctagggc cgcgggccgg cctggctctg      60
cggcgccgct gttggagact ggatcggagc gggtttggaac gacaagcccc acaaagagac      120
ttttaaaaaa ccatggcaga tgtggaccca gatacattg tggaaatgct acagatggga      180
casgggragat saaaaggaca tgcaactaat accccttgaa cagctatgca tgctgctttt      240
gatgtctgac aacgtggatc gttgttttga aacatgtcct cctgcactct tcttaccagc      300
cctttgcaaa atttttcttg atgaaagtgc tccagacaat gtattagagg tgacagcccc      360
tgccataaca tactacctgg atgtatctgc ggaatgtacc cgaaggattg ttggggtaga      420
tggagctata aaagcacttt gtaatccttt gggtgtagtt gaacttaaca acaggactag      480

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cagagactta gctgaacagt gtgtaaaggt attagaactg atatgtnctc ctgagtcggg 540
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acatctagtt cataaagaca ccttgcactc tgctatggct gtggatcaaa gactctgtgg 660
caaaatggag cctcaagatt cttctttaga aatttggta naatctctgt ctagtttatg 720
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g 1621

```

```

<210> 19
<211> 1122
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (380)..(381)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (402)..(402)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (499)..(499)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (505)..(505)
<223> n equals a,t,g, or c

```

```

<400> 19
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ttgttttgtt ttacacttcc acacaatccc ttttcaatc ctgcaaaact gctgagatg 180
tactattttg ccagcaaaag ctgagcctgt atgaacccag ccatgtgtct tgtctgtgca 240
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ggaacttcat tatcaccagc ctcaaatggt tctggccagc agtctttttc tatctgtatg 360
attaaccctt ctctgccgcn naggacctcc tcccaccacc tnttctcagt gttaacagggt 420
gatcttagct cctactctca gagaaaattg aagccaaaca gtagaaagtc ttttttgcata 480
ccaaagacac aaacctatnt tgttntgcat ccatcctcac ccccgctggt gcttgttcaa 540
cacaggagct ctctctccac ctacccaaag cctgtccctt cctgtagtgc cctggacttt 600
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ctttcttatt ggaattttaa catgttgcag cctctctgtt taataaaaaa acaatcaaca 720
aaaaactctc cctcttaact catgctttat tccagctact accttatatc attcctttcc 780
ttcaaggcca aagtctctag aagaggtggc aatatctccc atcatttctt cacttcatac 840

```

tcattcttca	acacatacta	atctagctctc	ttaccccata	atccattaaa	acacttattc	900
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ccttacattt	tagtatttca	ccctattggc	cattcttttc	ttcttgaaat	actctctctc	1020
tagcttttta	tgacactgta	ctcctgggtt	ttctccatt	tctgtctgc	tctgtcttag	1080
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<210> 20
 <211> 1368
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (637)..(637)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1140)..(1140)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1170)..(1170)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1286)..(1286)
 <223> n equals a,t,g, or c

<400> 20							
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<210> 21
 <211> 1188
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (577)..(577)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1022)..(1022)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1052)..(1052)
 <223> n equals a,t,g, or c

<400> 21
 gaattcggca cgagtaattt tgtattttta gtagagacag ggtttctccg tgttggtcag 60
 actggctctcg aactcccgac ctccaggtgat ctgcccacct cggcctccca aagtgcctggg 120
 attacaggcg tgagccaccg agccttagccc tgtttaggct ttttatagcc tatgttctta 180
 tgagcagtaaa acattatgaa tggtttagtt agacctgttg aattgaattc acttctctctg 240
 cctgtggtcga ggtatcagggt agcacagcca cagaagttac tgaatgtctt tgttggtgga 300
 ctttaggaaa gtggtttaat ttatgtggta ttctatctcg ggaattgcaa cagtattggt 360
 agattgcatt ttgtcacagg gaggaaatta cctggtaact ccttgattag gaacaaaatg 420
 aagcttcccc attttacaaa tcttggtctaa cattccattt ggatctcttc tgttgaacac 480
 ctctctctct cccctccctc ctccactccat ttctcagtt attttattgt ttactattgg 540
 aagtcacctc ccaactcagg atactttgta gtccatntta ggaataatc caccattctt 600
 tcactattat tctctgttta agttgaagaa cagaatatta cttttttctt ttccattatt 660
 gggttacacca gctagttaga gaactggggg aatactgttg gcatggggtg gatcctgata 720
 tctgtgtcag ttagtggagc ttggttctat gacctagag ctctttgtgt ccttcaaacg 780
 aggggtgctga aacaagacga acatagaact gtctatacca agcaaaaaac tctctgaaagc 840
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 ctgtttctgc ctccatagaa gtacctctca gcatccaggg atgctttagt aactcttagt 960
 taaaacgaaa tgaactataa ttaattacct tttttttggg ggggacacag agagtttcca 1020
 cngcatattac catgcttttt tttttttttt gnaaaaggaaa tatgatagga tattaagatt 1080
 gacagatgtg gggatggggt ggagggtgaa ttatgatgtg tgtatttctt tatgcttgga 1140
 ttatttcata attaaaaaac aaacatatata aaaaaaaaaa gaaaaaaa 1188

<210> 22
 <211> 921
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (111)..(111)
 <223> n equals a,t,g, or c

<400> 22
 ttttcttaag ggaaaaatca cgtgtgttct tttttaaact cctcagggtt tatgtttttat 60
 tgcataccga gctgcctccc ctgaggttct tgtatagact agttatttcc ntctgtaaa 120
 aagctgttct attctgttct gctcgtgttg gaacaaactg aacacttcca aaggaggcag 180
 tccctgcagc ctgtctctct tccactcccc tctctcccac agtccctggg tggagcagcg 240
 agtctgcaga tcccagggcc agagacaagg cagacaaaagg ttcatattgt aagaagctcc 300
 ttccagcacac tctctctctc tctctttgccc caaactcacc cagtgaagtgt gagcatttaa 360
 gaagcatcct ctgccaaagc caaaaaggaaa gaagaaaaag ggccaaaagc caaatgaaa 420
 ctgatgggtac ttgttttccac cattggggcta actttgtctg taggagttca agccatgcct 480
 gcaaatgcgc tctcttgcta cagaaaagata ctaaaaagat acaactgtca caactctccg 540
 gaaggagtac ctgacctgac acagattgat gtcaatgtcc aggatcattt ctgggatggg 600
 aggggatgtg agatgactct ttaactgcaac ttacagcaat tgctctgctg cccaaaagac 660
 gtttctcttg gaccaaagat ctctttctgt aactcttgcg acaatcaatg agaatcttca 720
 tgtattctcg agaaccacat tctctgatttc ccacaaactg cactacatca gtataactgc 780


```

atttctagtt tctatatagt gcaatagagc atagattcta taaattctta ctgtcttaag 840
acaagtaaat ctgtgttaaa caagtagtaa taaagtgtaa ttcaatctaa tttttctctg 900
tggaaaaaaa aaaaaaaaaa t 921

```

```

<210> 23
<211> 1838
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1076)..(1076)
<223> n equals a,t,g, or c

```

```

<400> 23
tggtccaccag tagctgggat tacaggcatg taccactatg cctggctaatt tttgtattt 60
tagtagaгаа tggggttttg ccatgttggc caggcttggt tcaaacctct gacctcaagt 120
gatccacctg cctcggcctc ccaaagtgtc gggattacag gtgtgagcca ccatgcctgg 180
ggcaaaagat attttcaaaa cattgtmaat aactttctcc ccaaaccagg acagggtctc 240
attctgtgtc ccaggctgga gtggcagggg caccatcgta gctcactgca gccttgaaac 300
ccggggctca agcaatcctc ccgcctcagc ctgccaaagt gctgggatta cacacgtaag 360
ccagtgcact cagtcctaag taacttttta aataccaaag gtagaaaagg aagaagaggg 420
aaaaaaaaaa taagcccata tatgaaaaag gaaaagcagc cagataaata taggcaataa 480
gagggtgaaa atataatcac ctagaattta gtatagtaa ggattatctc tgaaaaacaa 540
aaacagaaaa ctatcagagc caaataaaga aaatggaaa tgactgggga aaaccactca 600
ctaagtgtt gaatgttcaa gagaactga gaaagagtac tgcttatata aaaattatgt 660
gaaattaaac aaaaatgtag tttagtaagt aatggtgttt aagcacttat ggaatataaa 720
attatcacct gttaataaag aatgcatagt aaatggaatg gaccaagaat atgagtgaac 780
gataaaatca gtttttaaaa aattttatta aagttgatta agcctattag tgaaagaaga 840
caggccagggc acaatgggct gctcctgtaa tgccaatact ctggggaggtc aaggcaggaa 900
gatcacctga gccaggagat ttgagataag cctgggtaac acagtggagc tccattctta 960
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skmctwkqga gcttgaggga agaggattac ataagccag gaagatgaag ctgcantgac 1080
ccatgattgt gccactgcac tccggcttgg gtaacaaagt gagatcctat ttccatccc 1140
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gacaggagga ttgcttgagc ccagaggtca agactgtaat gaaccatgat tbtgccattg 1440
cactccagtt taactgcagc agtgagactc tgtcttaaaa aaaaaattat ttgatatta 1500
agtgataagt ggctatttgc ctatagcttt cctaaaaata actagcataa aatgaaactt 1560
attttccaac ctactccctaa gcccttgtaa tttcagttct aataactaga atagtacat 1620
aaaaaccgta aaaaattgtt taataagaat gtacacattt ccctactaaa aattatttgc 1680
ttgtagtttc aaaaataaat cataaagtta tctcaagcc aagcaaaaaa attatttggg 1740
acaaagtagc aaactcgtct cattagaaga aaaggccatt tcttcacata ttgaataca 1800
ggcaccaca catagttcca catgaaatta tatttcgg 1838

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```

<210> 24
<211> 697
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (19)..(19)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (50)..(50)
<223> n equals a,t,g, or c

```

```
<220>
<221> misc_feature
<222> (57)..(57)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc_feature
<222> (662)..(662)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc_feature
<222> (680)..(680)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc_feature
<222> (690)..(690)
<223> n equals a,t,g, or c
```

```
<400> 24
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acactagtgg atccaaaagaa ttcgggcacga ggccacatcc caccggccct tacactgtgg 120
tgtccagcag catccggcct catgggggga cttgaaccct gcagcaggct cctgctcctg 180
cctctcctgc tggtctgtagg tctcctgctt gtcaggcccc aggccacagag cgattgcagt 240
tgctctacgg tagcctccgg cgtgctggca gggatcgtga tgggagacct ggtgctgaca 300
gtgctcattg ccttggccgt gtacttctgt ggcggcgtgg tccctccggg gcgagggggc 360
gcggaggcga cccggaaaca gcgtatcact gagaccgagt cgccctatca ggagctccag 420
ggtcagaggt cggatgtcta cagcgacctc aacacacaga ggccttatta caaatgagcc 480
cgaatcatga cagtcagcaa catgatacct ggatccagcc attcctgaag cccaccctgc 540
acctcattcc aactcctacc gcgatacaga cccacagagt gccatccctg agagaccaga 600
cgcgtcccca tactctcctt aaaataaaca tgaagcacaa aaaaaaaaaa aaaaaaaact 660
cngggggggg gcccggttan ccaatttggn cctaaag 697
```

```
<210> 25
<211> 628
<212> DNA
<213> Homo sapiens
```

```
<400> 25
tacagcagtt taaaaagcag tgtctttctt tgagagacag gaagtctagt gaagagccag 60
tatttttagg atagataatg aaagaggctg tcatctcaga catttttaac ctctgaaaga 120
atacaaaaaga aaaaaaaaag aaaacaaatc tttcagaatt gtttgaagta agaacaagac 180
aagaggagggt gattggtgtg ttactgttct acgaaaaaagg agaaaaagct tcatgaaatc 240
gccattcagc aaggacagaa ctggagatgg ctctcttttt acaaaagaaat ctctgtccca 300
ggctttcagt ctggttggtg ttcatacaag tggttgtgtg ttgtgtggaa ggcgggggaa 360
ggcgggtgaa ggcggctcctg ttcaggggcc cctttggtga acacagcagg caaaatactc 420
tcgtcatccc cagccaaaact ggccctgcaag cgcactgact tccacatccc tagcatttag 480
gcctttgaat agaagctgac acgtagcagc cagctgaaca agtatttaat gaggagcaac 540
acaactccaa gaagggtctc ttagtgtatt gtcaagttgc tgcagccttg tgagatggaa 600
aaaaaaaaaa aaaaaaaaaa gggcggcc 628
```

```
<210> 26
<211> 1422
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1397)..(1397)
```

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<223> n equals a,t,g, or c

```

<400> 26
gtttctcttta ggttttgaag gtataagtg aaagtgaagc atctctcgat gattctttcc 60
aagatagggt taaaactat gaatccattt tcagtattty ctctctctcg tttgaaacag 120
tttgaggatg tgtytctttt tcttggttg atgttttgta sgtccttgaa tgggcaagag 180
ggcacatgaa gtacggcgctc ctccacattc acggcctcta caccgggacc ctgcggggtg 240
gggtgctggac ccatcggggg ataaagacgt cactcaagac gcagaagtcg tgggaagtc 300
ccagaactta tacgcgacca agtcctttct gtttbtgggc tbtggggaga ccttctgtga 360
tcagatattc caggccctct tcttctaact cgtgcgaagt aaggtggatt tggagcacta 420
catgcttggt ctgaaggaga atgaagacca ttctttaaag catcaggcag atatgcttct 480
gcacggaaatc aaagtgtgat cctacgggga ctgttttgac cactttccag gatattgtga 540
agacccttgcc actcagatct gcaaacagca aagcccgagg catttgtact cgaattcatg 600
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gacaccacac catgctgcct ttgccagctg gctccttcag cgagtcctcg caccagcct 720
gggaggtaga gatgctgac cgtgtggacag caccacatta ttgggtaatg catgccagga 780
ctgtgcaagg aggaagttag aagagaatgg aattgaagtt cgggggagtt ttggcatggg attctccggt 900
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gtgatcccc cggaactcac tgtctgaaga ccagggttcc tatgaagagg gtctgatggg 1020
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agaactccac gtggatctct gattgggaaa ccgtcacata caccagaga gccacatggg 1200
catgtggccc tcaaggctgg gtgagagggc tcccctgtgt gttgaactat cgaggagggt 1260
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gaatccgtgg gaagggatgg acctggtgtt cccgttccca tctgacaggg tctctttttg 1380
ccaagggtgt attttctgta ataaaagggg aagagttaar amwrwmmaar maamagtagc 1422
tgccaaagag aaaatangaa atagacactt tttttttttg gg

```

<210> 27

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (3)..(3)

<223> n equals a,t,g, or c

```

<400> 27
cgnaccattt tttttttttt gaatatcatc agcttacttg actggcaagg gcagaagctg 60
gggttgccct gaactctgcc aaacaaatat caaagtgtat ttaatagtta aatttgggcc 120
cttcccttce ttgtgcaccc catgttgtca cttaaccccc agaggttatt tatatctttt 180
ttgtttaaag caggctcatt tggggtaagt tgatgactgt ttaggtttac atgaccttcc 240
tctccttttc ctaccoccaa atatgtatat atacatatat aaaaatagtta tatattttac 300
ctatataaaa tatatatata tacacatata tgatctata ttcccttgtt tcttggctcg 360
cttatactgg ccataaaaaga gggagctgcc ttcaatgtat aaagtataag aagagtcca 420
gggaatgccca taatggaggg ttttggatct gaatttggac catttcacta aagagtaaac 480
gagtttgtctc agccctttcc tcacaagagg gaggggcccg gttccccaga ggggcttgag 540
cgtcggctcc ataaaaggcca gcttggcccr gctgtgccca ggggcttgag gagctcactc 600
tgggctcacc tggtttcagt tagagggctc tctctgtatt ttccattta aaaaagtatg 660
cctcagaaaa ctgactctgga aggatgggtg cgaggaaact gtatagttta gcttccaaca 720
ctttggaaca gattaaaaag ggaatctttt aaataaaaaa gtataaaaaa aaaaaaaaaa 780
aaaaaaaaag cgggcc

```

<210> 28

<211> 577

<212> DNA

<213> Homo sapiens

<400> 28

```

tagtggaatcc cccgggctgc aggaattcgg caccaggctg caccaggttg ttgagaggat 60

```

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```

caagtaagat aatgaatgaa agtgtctatg acgacagtac tagttcttacc acaccatccc 120
tccacatttt gggatgtctg ttgtctgtct tccctggggg ggaagagaca ctggagccct 180
tctctgtgct ttgtgcttct ttacatgatg tgagacctat agtaaacccc ttaacctcct 240
tcagccctcat ttattagaga gagagagaaa aaaaaagggt attttaaaaa aatctgtttt 300
cgggccagggt cagtggctca tgcctgtaat ccagcactt tggggagccg aggcagggtg 360
atcaccttagt gtcaggaggt cgagaccagt ctggctaaca tgggtgaacc ctgtcactac 420
taaaaaatcm aaaaaatcgt ctactcggga ggctgaggca ggagaatcct atgaaaacgg 480
gaggcagaggt ttgcagtgag ccgagatcgt gccattgcac tctagcctgg gcaatgagca 540
aaactttgtc tcaaaaaaaa aaaaaaaaaa actcgta 577

```

```

<210> 29
<211> 756
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (230)..(230)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (755)..(755)
<223> n equals a,t,g, or c

```

```

<400> 29
gaattccaat gtccacagggt gatgggagag atgctgagaa aggggtggcca gtgagtggg 60
aggaaaacca gaggagtgtg tatcctgggt accctgaatg tgatgagcga caagctgtcc 120
cccagcactg tgccattgct tctcccagtt ctcttcaaa gaccatcctt cgttcagcgt 180
gtgtgccccg aagatagccc ttctcttctt gtgtctccag aatccgtagn cagggaatag 240
gaatacatgg acaagtagca tgcagtgacg tgagaatgta taacaacaga tgactctggg 300
gaccaaaaat aaatggggcc agctacaaag agggcaggaa atccccacag gtgattttac 360
tgtgaggaat tttatgaggt tcagcatcat atattgttag gagaaaaatgc tgttttgata 420
agcagagata tgagaaaagt aaacgggaac tatgatttag agatctcctc tgrttacttt 480
gtccctattcy cagtttattt actaaagagc agtaaaagcca aggagaaagt agtaaaagt 540
agatgaatgg tagctatgtg aaacctgaaa ggaaccagag tgatttcctc cgaggaaacaa 600
atgcacttct cttacatcgt aaagatgatg tgttctgtgt tcccatagaa tctatgggaaa 660
gaaaaagtag gcagatactc tgatatgagc aatataactt aggtgtgaaa aaaaaaggaa 720
ttcgatatca agcttatcga taccgtgcac ctcgna 756

```

```

<210> 30
<211> 1296
<212> DNA
<213> Homo sapiens

```

```

<400> 30
ggcacgaggc cactggaatc tgatcctgat tgtcttccac tactaccagg ccatcaccac 60
tcgcctctggg taccaccccc agggcaggaa tgatatcgcc accgtctcca tctgtragaa 120
gtgcattttac cccaagccag ccgaaacaca ccactgcagc atctgcaaca ggtgtgtgct 180
gaagatgtag caccactgcc cctgtgctaaa caattgtgtg ggccaatata accatcggtg 240
cttcttctct ttctcttttt tcatgactct gggctgtgtc tactgcagta tctcagagt 300
ggaccttttc cgggaggctt atgctgcoat tgagaaaatg aaacagctgc acaagaacaa 360
actacaggcg gttgccaaac agacttatca coagaccoca ccaccacct tctcctttcg 420
agaaaaggatg actcacaaga gtcttgtcta cctctgggtc ctgtgcagtt ctgtggcact 480
tgcctctgggt gccctaactg tatggcatgc tgttctcttc agtcgaggtg agactagcat 540
cgaaaggcac aactaacaga agggagagacg tcggctacag gccaaaggga gagtattgat 600
gaatccttcc aactacggct gcttgagcaa ctggaaagta tctagtcac ttgcccatg 660
aaggcactgg cttactcggg tgctcttacc tctagtcac ttgccccatg ggaatggaat 720
gagctgggag cccctcctcc gggtagctgc tcaactcagc tctgtgatgg cagtgtgagc 780
tggaactgtg cagccacgac tcgagcactc attctgtctc ctatgtatb tcaagggctc 840
ccaaggcgag cttttctcag aatccttgat caaaaagagc cagtgggctc gccttaggg 900

```

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accatgcagc acaattcaag gaccagcctt ttaccactg cagaagaaag acacaatgtg 960
gagaaatcctt aggactgaca tccctttact caggcaaaaca gaagttccaa cccagacta 1020
ggggctcagc agctagctac ctaccttgcc cagtgtctgac ccggacctcc tccaggatag 1080
agcactggag ttggccacca cctctctac ttgtgtctg aaaaaacac tgactagtac 1140
agctgagatc ttgctctctc aacagggcaa agataccagg cctgtgtctg aggtcactgc 1200
cactctctac atgtctctta agggagcaca aataaaggta ttcgattttt aaagataaaa 1260
aaaaaaaaa aaaatttggg ggggggggcc ccgtta 1296

```

```

<210> 31
<211> 1560
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (461)..(461)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (497)..(497)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (499)..(499)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (595)..(595)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (621)..(622)
<223> n equals a,t,g, or c

```

```

<400> 31
ggctttttct gacattgggt aaccccttag actacaatta atccctttgc tacagacacc 60
tgtagccctt gctgcctcct ttttgtaag aggtcttata attttatgtt tgatgtccat 120
cttccccact tgattgaaat gcactattta tggaggagct atgtctgtat gtgttggtgc 180
tgatccctta ttgtctagca tagtgctga catacagtac aggtcacaaga catatttgca 240
cattgattta tggaaaactg atactcaggt tctgaagaat aaataaatgc acctgaactg 300
tcaaagtgtc aaaagcaggg aatccagaaa tgtctggagg taggaatcac agctgcaaga 360
ggcacttctt ggtaaacctc gccctccgac ctctagtctg agccaccctt ttggatccta 420
cttcagcctt tctggagcca gtggctcaca ggtttctcga nacaagagaga agaggcttga 480
gactattatt acatatnant ctctcttaga agcaaaagtgt gttcgtggat tgaattttca 540
accctacagt accaattata aatcctgagg cattctatca gttaaagacaa cttanaaatat 600
ttgatcccat tcagaacttt nncatttggt ttaaagcagg aaaagttaaa gmagtcaatg 660
twmtaacyct tctcttttaa aatgtggatc atagtctctc tgggggatgtt tgttcattta 720
atattaacat tttttaagct tgscatgtwt cgtgggtgta tctgtttggt ttccctttggt 780
aactgcattt tgccatgacc cttgatacca gctctactgc tacagcccta ggttaggcca 840
ccgtcatctg tggcctggac cctttcagtc ctaactgggt gccgtgtctc ctttcttagg 900
cccccaaca gttcatcttc catatccaca cacagtagcc cttaatgatg tttttaaagg 960
aatgagctat attaggatga tttctttgcc caaaaactcc ttcaatggtt ttccacttac 1020
tccagagacc caaaaactca aggcattttc cctatggggc ctggatgggc ccaactttcc 1080
cctgaccccc ctgtccagtg ctgtcccttc ctgttctgtg tctcttcagc ccacactggc 1140
ttctctctct acctcaggg ttccaccaat ctggatctgt tctcataaac ttgtctcttc 1200
tgactctctc tttttgtag ttcttttccc agaccttcac atggctctct gctctccctc 1260
tctgagctcg aacacaaaag tcaactgactt aaagaggctt ttteccacca tccagttgaa 1320

```

atcagcaccc	tctctgtaac	tgtgtaccac	attgtcttat	tctttctcat	aggtctgaaa	1380
ttgtcgatt	catttttaac	gtattttttg	ctttttttgc	cctgttaaca	tataagcttt	1440
ctgaggtcag	agactttctt	ttcaactgtag	tattcccagt	tcctaaaaa	ggggccctaca	1500
catattggat	gtttaataaa	cattttattga	ctaatacaaa	tgaaaaaaaa	aaaaaaaaaaa	1560

<210> 32
 <211> 1462
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n equals a,t,g, or c

<400> 32							
ttttganatg	aattcccttg	ggaatttcgt	gacactatag	aaggtagcgc	tgcaggtaac		60
ggtcoggaa	tcccggttcg	acccacgcgt	ccggccggac	taaccagctc	ctccaggcgc		120
tggtggcgagg	tgtggcagga	ggaagcccca	tcagcccccag	gctgtggaatg	tgggagaagg		180
gcgagctcag	ggggccatca	tgggggttccc	ccagaggcaa	cctggcctat	cagggtctgct		240
ctctctcgtg	tgggcactgg	cctggccctc	gccttgtatg	agcttggagc	tgatccccat		300
cacaccacag	ataaacagct	gggacctaga	agggaaaggtc	acagccacca	cgttctccct		360
ggagcagcct	cgctgtgtcc	tggacgggct	tgcggcggtt	gccagcacca	ctgtggtggt		420
gggtggccttc	agcaacgcct	ccagagactt	ccagaaccca	cagacgcgag	ctgagatccc		480
agccttccca	cggctgtctga	cggaggggca	ctatatgaca	ctgcccctgt	ccctggacca		540
gctgcccctgt	caggaccccc	caggcgggcg	cagggaagctc	cccttgcctgc	gggtgggcaa		600
tgaccccggc	tgcccttgtct	acctccctcca	gccgccttac	tgcaacagcc	ccctccccag		660
ccccggagct	tacagggtga	agttctctct	gatggacgct	aggggctcac	cccaggccga		720
gaccaggtgg	tcagacccca	tcgctcttca	ccaagggaag	tcgccagctc	ccatcgacac		780
gtggccagtg	cgacgcagtg	gtggtatgat	cgctcatcacc	tcctatctct	ctctccttgc		840
cagcgcctcg	ctcctggcct	tcttgccagc	gtccaccscs	cgcttctcca	gctgtgtggt		900
gcgggagatc	gccccggagc	agctgagaat	tggctccttc	atgggggaagc	gctacatgac		960
ccaccacagc	ccaccggagc	aagccgccac	cctgcctctc	gretgtgagc	cttgcttggg		1020
ccccctcccc	agcctcagcc	cctagcctgg	cccttgttgc	tggggcggtg	gtggctgtgg		1080
ccagtggtgg	ggcaaggagc	tggtagttat	tcccagcccc	tgacccctcc	ctctcacccc		1140
tgcccacagt	cccactgatg	taggacagat	gtcagggttc	tagacgtctt	tggtgcaaaa		1200
aggggggtttt	attcaagcac	agggacagga	cccatgggca	gggagagcgg	caccgggggtg		1260
gtgaggagtgt	gcccgttata	tatactttcg	agtgaggagg	gcttagagag	agcgttaagtc		1320
tctaaggaa	tttggaaagc	aggtctccag	gggtcctgag	gggctagctg	ttgttaggaa		1380
aaggtcattt	attactgttt	agtaaaaaac	ttcacgagaa	aaaaaaaaaa	aaaaaaaaaa		1440
aaaaaaaaaa	aaaggggcgg	cc					1462

<210> 33
 <211> 1272
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1264)..(1264)
 <223> n equals a,t,g, or c

<400> 33							
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agcaatgcaa	gaactccaga	gagtgaggct	ggagagagag	aaagcgcgga	taagagaggga		120
gtatgaagag	aaaatcagaa	agctggaaga	taaaagtggag	caggaaagaa	gaagaagaca		180
aatggagaaa	gaactagaca	gaacaggagg	ctcactatgc	tgaaggagc	caaggggcaa		240
gaacgggaag	ggagagtaag	gatgggatac	ttgaattaat	catgacagcg	ttacagattg		300
cttcctttat	tttgttaagt	ctgttcggcg	aagattaaac	ttaatgaaa	ctcgtttgtga		360
ttttctgcac	attctctggc	aaaccttgccc	catacttact	tatttagact	agtcagattgc		420
tctagtttct	gtctctcagg	cactcgtaac	taaggaccac	cattggccat	tggtagatgt		480

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ttgattgact taacaagaga gggacaatt ttcaatttgt gaaactccaa agcagaaagt 540
attgggtgct gctaccttgt gaattcttcc tttagacatgc agagaaaaatg tatgcaagag 600
acccaaaaaga ttggctccaag ctatgtctatg ttacctgttaa taaaatcttt tcttctagat 660
tctttctatg ttggcagata atctcccttt gttagcttcca ctacttatt ctgcatcca 720
gagtcacaat gatcatctta cccatgtgggt ttttgagaaa gaaagatcaa tctttgttt 780
gcagtaggta atcttagaga ttggagatgat tgtagaatta ttccatagat agtgtcaatt 840
tatttaattc cattgtcata taaggagtgta aattgtttct tatcatttgt tcatggaaga 900
acagagacct gtctggaaaa tcgatctcta caaattcaat taaataatga tccccaattg 960
sykmaaaagt gaaatacacg aattcaacag ataatagagc aatgttagt atattcagct 1020
ctatctgtag aaactctttg acgaacctca atttaaccaa tttgatgaat acccagttct 1080
gtctttttct agagaaaagt agttgcaacc tcacctccct cactcaacac tttgaatact 1140
tattgttttg caggctcatc acacacttct gccccactg cattgaattt tttgcttatg 1200
ttgtttataa taaaaacttt caattatctc ataaaaaaa aaaaaaaaag aggggggggccc 1260
cggnacccaa tt

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```

<210> 34
<211> 773
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (459)..(459)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (503)..(503)
<223> n equals a,t,g, or c

```

```

<400> 34
cggcacgagc ttttgcccat aggataagta caaactagat ctgggtactg cctgccccac 60
cagctcagat atctctcaca actaggacta actttttctt ctgacaacta taaaatatatt 120
cccttgccct ctcaagtttg ctcaagtgta agttatgcct ttgctctgga atgacttgac 180
ttctcttttg ttttacttag ctggctgctt ttcactttgt aggttagtgc aagggactcc 240
aggaagctct ccttggaaca gtaatgaaga gggcataatc caaggggcaa ctccatgttt 300
ttggaacctg actccatttt caggcacgta atattgtcaa attcctttta aaagcacctg 360
tctgtctgtt aacgttggtg cagatactgc tattcccttc ctccatacca ttgctgatgg 420
ttactgaggg tatgggaagg gccgactagt ccagctgttnc acaaacagcc cttaattgtca 480
aactgaatac tgccaacgta gtnccagttt ctgtatctaa agactcagct tggagtcact 540
tgtctggaat aaaaagtac cctcctctgt ctggttttgt actttctgta ctctgatgcc 600
cccagcttct tgccctctga aaatttgtca gaatttccaa aattctctgg ccttctctct 660
tgctctatat atggttttgg attcattcct tttaaaaaat atttactgtc atttcagtag 720
aattttgaca caataaatat aagcacatca aaaaaaaa aaaaaaactc gga 773

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```

<210> 35
<211> 2455
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (2277)..(2277)
<223> n equals a,t,g, or c

```

```

<400> 35
ggcctcgtc cgggaagtgg agggctctaca cgaagcgccg ctgggtctgg gtgcccgagg 60
gcagcagctg tcgcggagtt cggccgtctg cccccgatca ccatgtcggc ttctgcacac 120
aaccccttgc cggagccagt gggatgtaaac cccctccagg atccctctgt gaccagctgt 180
accaacgtcc cgcagsggcc ctggcggaat tcaacccctt ctacagagaa aatgcagaga 240
caacagttcc tgtcacccaa ctccctgggt cctcacagcc agcggttctc cagccatcag 300

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09973278.101601

tggaaccaac	ccagccgacc	ccccaggcog	tgggtgtctgc	agcccaggca	ggcctgctcc	360
ggcagcagga	agaactggac	aggaaaagctg	ccgagctgga	acgcaaggag	cgggagctgc	420
agaactcgtg	agaacacttg	catgtgagac	agaaacaactg	gcccccctctg	ccctcgtgggt	480
gccctgtgaa	gccctgcttc	tatcaggatt	tctccacaga	gatccctgcc	gactaccagc	540
ggatatgcaa	gatgctctac	tatctgtgga	tgttgcatctc	agtgactctc	tttctgaaac	600
tgccttgctc	cctggctctg	ttctcgggca	acagctccaa	gggagctggac	tttggctctc	660
ccatccctgtg	gtttctgctg	ttcactccct	gtgccttcc	ttgttgggtac	cgaccatct	720
ataaggcctt	taggtccgac	aactctttca	gctttctgt	gttctctctt	gtattttttt	780
gtcaaatagg	gatctacatc	atccagttgg	ttggcatccc	tggcctgggg	gcagacgggt	840
ggatttcgac	cctgtctaca	ctggataatc	attccctgge	catatcagtc	atcatgatgt	900
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actccctcta	cgcagcgaca	ggggccagct	tccagcaggc	ccaggaggag	ttttcccgag	1020
gcctcttcag	cagcagaacc	ttccacagag	ctgcttcac	tgtctgccaa	ggagccttcc	1080
aggggaatta	gtcctctctc	cttctctccc	ctcagcctc	ttctctgect	gcctctcgag	1140
ctgcaacttc	cgtgggtgct	ttatgtgggt	gtggttgc	ccagcacaca	cctggcaggg	1200
ttcttgccgt	ggctctctct	cctccctcag	cgaccagctc	ttcctggaa	gggagggaac	1260
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tgggttggta	ggattctttt	gtctctggaa	gcagtgggac	tgaagtcttc	ttcgtctctg	1380
gcacacacag	acacccccac	acagttggga	tcacaggctg	acctggggcc	atccccagct	1440
gagctttctg	ccagggtctc	gggcttgac	ttccccaccc	tgcaggcctg	gcctgaatct	1500
tgctttctag	acacagccca	gtccttctg	cctgggctgg	gaataagcct	ctcacagggt	1560
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cctgcagggg	atggcacttt	gagccctctg	gagccctccc	cttgcgtgag	cttactctct	1800
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gagggacggc	tctgctttgtc	ttcgctctag	atggcaactc	ccccccccc	gtccccatc	2040
agcagcatcc	agactttcag	gaagggcagg	gccagccagt	ccagaaccgc	atccctcagc	2100
agggactgtc	aagccatctc	tcggagggcc	ccctaatacc	cagtgaggctc	tggtttcama	2160
ccctgggggg	tgtgtcactg	tgatgggaca	cgtaggatct	cacccttaaa	accagcaccc	2220
tgtcctcgga	ggtctccag	tgggtgtgtg	gactcggggg	cttccccaca	aaaactnctc	2280
cggtctctgg	cccgagacag	cccgaggccc	cagcactatg	atgatactgg	cagcggctgg	2340
ggttttatga	actcctttct	ggtatttttt	ccctctatg	tacaaatgta	tatgttactg	2400
ctcaattttt	gtgcttaagt	aaaaataaaa	acattttcag	acaaaaaaa	aaaaa	2455

<210> 36
 <211> 914
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (909)..(909)
 <223> n equals a,t,g, or c

<400> 36						60
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gctctagttt	aaactccgga	aaccagaatc	cactgttctc	tcacaaagcg	ttggtgattcg	180
agagtcaaaa	tacagagatg	atatggtaaa	agatgactat	gaggacgatt	cccatgtttt	190
ccggaaaccc	gccaatgaca	tcacatccca	gctggagatt	aatttttgta	acctccctcg	240
tctctggcgt	ggagcccgag	gaggcacccg	gggaggccgg	ggaaggatca	ggagggcaga	300
gaactatgga	cccgagacag	aagtgggtgat	gcaagatgtt	gcccccaacc	cagatgaccc	360
ggaagatttc	cctcgctgtg	cttgaagaag	ccctgtttcc	cagcacccgc	gagctgcact	420
gcacacctgt	ggggagacct	ttccagctgg	gccaaaggag	tcagactcta	agacacaaag	480
atgttgtctt	ttccgtgtca	tgtaaaattg	ttgcactttt	ttgggtcgag	ctgttagagg	540
ggctctccca	gaagctctcg	agcaggccat	ttcccaagaa	gtgaagaat	gggtgactgtg	600
ttttttatga	aggaatttca	aatgaagaat	aatgtttaaa	atgtgtatat	agagatagta	660
tagactcctc	cgcggaagca	tggagggaac	ggagggtgtg	aaatagactc	catggagact	720
cttaggaagc	agttagattcc	cgggggctgt	gcctttagcg	ttagaggaaa	cacatagagc	780


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tggaactgtt aatggaaagc agtcacagct gagttttcgg agaccaagaa attaaaaatac 840
aatgacactt acaaaaaaaa aaaaaaaaaa aaaaactcga gggggggccc gtacccaatc 900
gccttggtgt gcat 914

```

```

<210> 37
<211> 1555
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1248)..(1248)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1389)..(1389)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1391)..(1391)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1393)..(1393)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1396)..(1396)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1551)..(1551)
<223> n equals a,t,g, or c

```

```

<400> 37
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gctcagcctc tggatggagc tctttccagc agaagcccg cggcaaaaaa ctcagaaaaa 180
tgaagaggga aagcatggac ccttaggaga taatgaagag aggaccagag tatctactga 240
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tggttaggaa atggattatg agaactcgaa cagaggggaag gtgaaatgca accggaggaa 360
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caggagtagc agggagtgga tagaatgttt attgttttaa ctgagacttt ttagttcact 480
aattatittg aagggtagaa cactctgtgg gctctcttct tatttctctc tgggtacaat 540
cacaaaaaaa aaatctctcc tagctgaaat tacatgcagt actagcaaa ggtctctttg 600
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tcgttcaatt tcaataacaa attaaatat ttttccacat ttgttatctc gttatgtttt 720
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gaggaaacatt tttaatgcat ggaagagctg gagtgaaccg aatttcanac tgccctgtgt 1260

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tggtgtgttna	nangngnagc	tttgtagagg	agacctctta	caaatgtgac	tttattcaaa	1440
aaattacaaa	aacatgccc	gatgctaaca	ctgactttta	ttatgaatgt	aaacaagaaa	1500
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<210> 38

<211> 1767

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (765)..(765)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1130)..(1130)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1545)..(1545)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1658)..(1658)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1744)..(1744)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1748)..(1748)

<223> n equals a,t,g, or c

<400> 38

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aactggagg	gaccctgcct	tctcattcct	aacatttttc	tctactacca	cccggatttt	180
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tgtcataatt	tggaaaaagt	tgctttgaa	gtaggacnaa	actgtttcaa	agatttttgt	1680
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<210> 39
 <211> 1579
 <212> DNA
 <213> Homo sapiens

<400> 39							
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aagataaaaca	cagtcatttc	tacaacccaa	aaagtgaact	cagattttgag	catagtatgc	420	
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aacaattggc	caaaaatacat	aataatgtaa	agaaaactca	gcataatcta	aaagatgtga	540	
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<210> 40
 <211> 1543
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (69)..(69)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (717)..(717)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (899)..(899)
 <223> n equals a,t,g, or c

<400> 40
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 agaactagt gattccccgg gctgcaggaa ttgggcacga gccgaacatg aggcacatgtc 180
 atggcattgt tgcctaccct tgttccactc ctcccagccc gttgtctctg tttggaggag 240
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 aagactgggt aatttataaa ggaaagaggt ttagtgtact cacagttctg catagctgag 360
 gagacctcag gaaccttata atcatggcaa aaggcaaaag agaagcagag aggcacagagt 420
 gaatgccagc agggaaaatg ccagacgctt ataaaacat caaatcttgt gagaactctt 480
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 aattatctag tatgaggtac aaaaaaaaaa aaaaaaaaaa aaa 1543

<210> 41
 <211> 2095
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n equals a,t,g, or c

<400> 41
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 ttccattttt ttctctctgg cactaacctc accttttgtt tttttgtgt ttgttttgtt 480
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 ccgtgttccg ggtcaagttt tgaagagact gaagcccttg tgaacactgc tgcgaaaaac 720
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aaacaagaaa tgcattgttc aaataaaatt ctctattgta aataaaattt ttcttttggg 2040
tcttggcaaw aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa aattc 2095

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<210> 42
<211> 1092
<212> DNA
<213> Homo sapiens

```

```

<400> 42
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ccaaccccat ggggggttaaa gggaaaaaaa aaaaaggaaac gtttatggaa atgatgctag 180
ggttgttctc tctcttttgc cttgtcactg gaattgtctga aggcagggtc gaagatgctt 240
ctctacatga catctgcacc acccaacaca cacttacctt cacaccttca taccctgttg 300
gagggtcctg atgactcaat ggcagtaaat tcagccccc agggaggcca cagcagcccc 360
cagcctctag cctcctaccc tcttctctag gcaaccttga caggaaattt tccctctgcc 420
ttctccttga tcccaacggt agctgcataa tagctgagct cacataatcc ctatgcccag 480
tgctagagtg cctcttagat gaggtagccc aggtttgact tcttgaatcc ccagcagcag 540
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gtaatccttt gtggaagcct ccctgtttcc cttctctgat ctgccccgga gattcctgtg 660
ttgcccagtc tctagggagg gaggtcttag tggagaggtt caagggcagg agaaagcagg 720
agaatgcaga ggccgcgggg agaggacaga aagtatatca ttataacta accttagcc 780
tttagccact caaaaatttt tcttaatagc ctaagggttc ttggcaggtc ttccccca 840
tcagcaagaa atcttggtag ttgggaagag tcagaccttg tctcctgaac aagctttctg 900
ctttggccaa gaggttgttg gagattaatg cctgtccctg aaaggcacag gttggagttg 960
tactctcttc ctctctcttc ctctctcccc ccttagagat cgtgaccctt cctgcttgcc 1020
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<210> 43
<211> 413
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (343)..(343)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (385)..(385)
<223> n equals a,t,g, or c

```

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<220>

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<221> misc_feature
<222> (410)..(410)
<223> n equals a,t,g, or c
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<400> 43
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gggtgaagct ggagatatatt cggatgataa tctacctcac ttctcctgtg gctatgttct 120
gggtttccaa tcaggcccgag tggtttgagg acgatgtcat acagcgcaag agggagctgt 180
ggccacactga gaagcttcaa gagatagagg aattcaaaaga gaggttacgg aagcggcggg 240
aggagaaagct ccttcgcgac gccccagcaga actcctgagg cctccaagtg ggagtcctag 300
ccctccctct gatgaaatat acatatactc agttccttgt tanaaaaaaa aaaaaaaa 360
aaaaaaaaa aaaaaaaaaa aaanaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 413
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<210> 44
<211> 735
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> (376)..(376)
<223> n equals a,t,g, or c
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<400> 44
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ataaaaggaa tccttaatgc agaaacaaag atgcaacttt caaaattcctt attattccta 180
tttgtatata cagcagagaa cccaaccagt gccctgtgtt ggggggaaaa gtcaacagt 240
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catcattagg cttaaatata atgctgaagc tgcctacaaa gagtttaaac taaaactctc 360
agggtcttta ataaanggtt aagtcagctc tccaacaca attttccaca ttgacagctc 420
caatctctct aaataaagct ctgttttctc atatttttat gactgctgag accccacagg 480
gaccaatatt tgtattcaaa ttacatttca tgggtttcca ttgtttcaca atgagtttcta 540
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ttttatgctt attttctctc catgaacatg agtaataaaa tctgtttcct gaatggattg 660
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aaaaaaaaa ctgca 735
```

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<210> 45
<211> 775
<212> DNA
<213> Homo sapiens
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<400> 45
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catcttaatt tctaagggca aaggtgatgt ttcccagttc gtaaagtctc gagagtacta 120
atgctatcaa aagtaattaa ttccaagtgt aaataagacc aaacaaaaac gatcagatgc 180
gacattgtct cataaacatg atagactatt aaatcacctt gtgttttttg gaaacagcta 240
taactattaa tatatacagt aatcagtaa atttctctca gatatgctat tgcggataca 300
acagatcatc tattgtcaca agctaacatc tatcctaaca aaatggcgga atacagcaag 360
acataaagat aaaaagaaag aagatgagct gatattaaaa catgaaactc aattgaaaaa 420
atggaaaaat aggttaatac tcaaaagagc tgcctcgaaa gaatccaatt ttctgaaagc 480
aagttctctc gaagctcttc ttgtagatga gactctaaaa ttgacattt cactgttacc 540
kgaargrcca atattacagg ttgtatgtaa ttcagtatac attatatact ataactgtcc 600
aagtggtgtg gtgcatgctt gtaatcccg ctgcttggga ggctgagaca ggagaattgc 660
ttgaaccagg gggcagcagg ttgcagtgag ccgagatcac accattgcac tccagcctgg 720
gcgacaatag caaaactcca tctcaaaaaa aaaaaaaaaa aaaaaagggg cggcc 775
```

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<210> 46
<211> 506
<212> DNA
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<213> Homo sapiens

<220>

<221> misc_feature

<222> (13)..(13)

<223> n equals a,t,g, or c

<400> 46

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cttccttggt	tgctggaggc	actggagaga	ggctctgata	ggatggctgt	atggatcagt	240
gggtcttatt	cctcattctg	cagcagaagc	aactgggatg	ttttctctcc	taattattgt	300
ctggcttctc	tgccctttct	tttccggctc	gtatccaaag	ctgctaaacc	ctggctggctg	360
gctctccctg	ctctctttcc	agatggatta	tggctggatt	ctgccatggg	gagctgtgac	420
agtcagacat	ggaaagccag	gaatgggaaa	gaggtcaggt	ggctctctcc	cacacctcac	480
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<210> 47

<211> 1447

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1420)..(1420)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1432)..(1432)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1436)..(1436)

<223> n equals a,t,g, or c

<400> 47

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cacttcggaa	ctcgtttcgt	tttgaccac	ggagggtggag	gagtaacttt	ttgacatgtt	180
ggcctttcca	gttttgttgg	aagtttcatg	gtcggttttg	tttygtttct	cattctctctc	240
tccksgcccc	tcagcccccc	aacccccaac	cccctcccgc	tccgtgtttg	atgcacgctg	300
ttcaaatgtg	aggctctgaa	tggctggcac	acgggaaaaag	ctgcttgtgt	cattcgtttc	360
tgggagtggt	atggctctga	gcagcctcgc	ctccctgttt	gtactatttg	aactttgcag	420
atctctgttc	tctcaagcag	aactcccaac	cagatccatt	cttgaccagt	gacgggctcg	480
gaatctggcc	ttttgtgtga	gatgatcacg	gtttcttttg	tttatcacgc	catttgcaaa	540
tcagagcaag	agctctttct	caaggggcaag	aaacgcgaac	aagaaatat	tgtgagatga	600
aagttgtcaa	ttggattttc	ttcctaaca	aacaacaaca	acaaactact	agaagtctcc	660
ctgagtcac	tcgcttggat	ttctgacaca	gtttacaaaa	aaggaaaaag	gcactgctcc	720
tattttccct	tatggctgag	ttcaccttaa	gattgtataa	gtgtatatgt	cagtgaaaaa	780
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aaaaactttt	gagcgaaat	caaaagttaac	ttttaaaaat	tgcgaaacta	tttcagaatc	900
gcaactttat	cgaagattaa	atcagaacttt	tttgtctggg	aattatata	ttattattta	960
gcaaaactga	agaaaaaaag	cacagaattg	tttcaacaga	tgtctctcat	tttcagctag	1020
cattttctct	ccaagttgag	ctgggttaat	gtgttttggg	tttccctcct	caattgctct	1080
attttttaga	tcacctgcga	ttcatttgca	aattgcacaa	aaacacattt	tagaaaaaag	1140
gaaccttcaa	ttattagctt	tggtttcttt	taaatgtata	taaaaaagat	aatgtttgtg	1200
aatgaagtgt	gctaacaatg	attttagttc	atttttgctt	tatgtaatat	aaagttttta	1260
aaatttttaa	tatggtttta	acctttatgt	gtaaatgatt	ttctagtgtg	accttcta	1320

09973278-101001

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ttaatattag acgtctaagg tatactctgta aattagaatc cgactatcac tctgttcatt 1380
ttttttgaac aaagagttta aataaagcct gaaccagggn acagataaag anaatnaaaa 1440
aaaaaaa 1447

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<210> 48
<211> 1420
<212> DNA
<213> Homo sapiens

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<220>
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<222> (524)..(524)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (585)..(585)
<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<220>
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<222> (1042)..(1042)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1062)..(1062)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1144)..(1144)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1171)..(1171)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1286)..(1286)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1350)..(1350)
<223> n equals a,t,g, or c

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<400> 48
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cttgaggagt caccggggag actgctcgca ctgtttgttg tgcgacgggc actggcccag 120
ggacagaggg aagagaaggg ccagccagcg gcagtggagt cggcaggctg gctgccact 180
cgctttctct cctcacaaaga ctgccttccc ctgtcttcga ggaatctcga cggactatag 240
ctcgactcgt ctgggctgga ggaaacttgg ccgctggcca cccggaggag actgaaaatc 300
ctttggtcaa cagggcgcct ttccttgaac caaaacaaaa ctttccgaag ccggaaaagg 360

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aacgcccagt gtcgcctgag agccctggag ctgcgcgaga cccaggcact gagtgcggcc 420
tcggcctctg acctctaaca cgccgggaac aaaccatctg gggcgggccc caggcctcgc 480
ggagcggaat gtgaccgcaa accgaccgac ttctgaccc atantccata gttctcttca 540
gcaacttgaa cattttggaa aaagaacaaa tcttaacatg ccacnaccta atgganaaac 600
taaatcccc ttctacacct tgctttccaa aagttaaaaa aaaatagtta aacgctatta 660
gaggtctcaa gttcactgtc accagatcag ctaggltccag aatcttcagt tcttgaagcc 720
aagccctaca aatagattta ttgtagcata tcacacctct tcagggtgact taaaaaatg 780
agaattcatg agaaattatc ttcatctcca agtaaaaaatc atgaggtgccc ttttcaatgg 840
atgaaattgt aagtgcttgg tgacaaggaa ataatggat aatggatatt tggtcatact 900
ttttaagaat atctgttaga aagatatagg atgcagaaca tctaggattt gctgaaagtc 960
atttattatg gatagggggt atgagtaagt tcatagatga aaagggatga aacaagattg 1020
gccatagttg ctctattttt gngtatcttg ttcttttatt tngtttcttt aaaaagtctt 1080
catatcactg acatttacac ttagttttag ggaagtcgaa atttagaat aagctacagc 1140
tctntaagct atcggtctaa ctggattttt ntcatgctg aagaactttt taaaaaatc 1200
agccatttag gtcacacagc aaatacattt ggcattaaat tcttagtacc actaaagtac 1260
tccctcccac cgccgcgccc ccccnnttcc ccccgacccc tttagacctg gcaagagaga 1320
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aaaagggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1420

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<210> 49
<211> 1220
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1197)..(1197)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1208)..(1209)
<223> n equals a,t,g, or c

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<400> 49
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accocagttt cttgtctctc caaagtattc ttctcatagc ttataaaaga aagtcacat 120
tgaatagcat ggtctgggaa cattcctctc ttatttgttt tatttgaaca tgatagtgat 180
ttccaagatg aaatgatcaa aaaagataag taccacaaga aagttttttt gtttgggttg 240
tttttttttt tgtttgtttt ttctttgaga ctgagtcctc cctgtgtgoc caagtggag 300
tgcaaatctg gctcactgca gccctccact ccccggttcc agcgattctc ctgcctcagc 360
ctcttgaata gctgggatta caggcgccc ccaccacacc tggctaattt ttgtgtgtgt 420
agtagaggcg gggtttctat atgttgcca ggtgtgtctc gaactcctga tctcatgtt 480
cgtctgcctc ggcctcccag agtgctggga ttacaggcat gaggcactgc gcccgccaa 540
gaaagtatgt ttttagaggt gtgtgtaagt gcaattgtat tacctatgaa caaattacc 600
tgactcttgt cccaggaagc ctgtttcgca ttttcgcttt ttgatttgta ttaccagtt 660
ctatgtagtt catattatgt ttctgtctga ctctcagaaa ttacttctc acgccagttg 720
cttctgtgat gactttgatg tcacctatag gaatacacct cactgcagct aagtggtgat 780
cttactgtat aaaaagttcta catggcttta ggttttagga caaagtgtga gattataga 840
ccattctctg tggccaggac acagattttg agagctgtgt gtatatatat ataactcatg 900
ttgtattttt ttctgaaaag ttatcaattg ctttttttta aaacagcttt ttttagaggt 960
ggggtgggga tgtatataac gaggaaaagt tatatgtact ttaaagtatg tcaagtctct 1020
actagtttcc tgtactgaag ttccaatttt ttttatataa gtttactttt cactgtctct 1080
attcttttgt gggaaaaaat gcatttagaa aaacatagtt taataactgt atataagata 1140
atgaaagtta gtaattgtcca ttatttaata aagtttgtaa agtacaaggt aaaaaanaa 1200
aaaaaaaaa aaaaaaaagg

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<210> 50
<211> 1048
<212> DNA
<213> Homo sapiens

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<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (16)..(17)
 <223> n equals a,t,g, or c

<400> 50
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 ctgtgcagac ccttcgccac aagaagatgg gcagatcatg tttgatgtgg aaatgcacac 120
 cagcagggaac catagctctc agtcagaaga agaagttgta gaaggagaga aggaagtoga 180
 ggctttgaag aaaagtgcgg actgggtatc agactggtcc agtagaccgc aaaacattcc 240
 acccaaggag ttccacttca gacaccccaa acgtttctgt tctttaagca tgaggaaaag 300
 tggagccatg aagaaagggg gtattttctc cgcagaattt ctgaaggtgt tcattccatc 360
 tctcttccct tctcatgttt tggctttggg gctaggcatc tatatttgaa agcgactgag 420
 cacacccctc gccagcacct actgagggaa aggaaaagcc cctggaaaat cgtgtgacct 480
 gtgaagtggg gtattgtcac agtagcttat ttgaacttga gaccatttga agcatgacct 540
 aaactaccac cctgttttta catatccaat tccagtaact ctcaaatcca atattttatt 600
 caaactctgt tgagggcatt tactaacctt atacccttt tggcctgaag acattttaga 660
 atttctcaac agagtttact gttgtttaga aatttgcag ggcttctttt ccgcaaatgc 720
 caccagcaga ttataatttt gtcagcaatg ctattatctc taattagtc caccagacta 780
 gacctgtatc attcatggta taaattttac tcttgcaaca taactacccg atctgcttta 840
 aaacagatc aggttagcaa atgatgtaaa agaagcttta ttgtctatgt gttttttttt 900
 ccccaagaca aaggcaagtt tccctaagtt tgagttgata gttattaaaa agaaaaacaa 960
 acaaaaaaaa aaggcaagcg acaacaaaaa aatattctgg gcaataaaaa aaatatatta 1020
 acaaaaaaaa aaaaaaaa aagggggg 1048

<210> 51
 <211> 968
 <212> DNA
 <213> Homo sapiens

<400> 51
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 aatccatttg ctaaaagctt ccagagactcc gggcgcaaca gaattgggtt ggaagccttg 120
 gtggaaatcat atgcattctg gcgacctatc ctacggactc tgacctttga agataccct 180
 ggaattccca agcaaggcaa tgcaagtccc tccaccttgc tccaagtact gggaatggcg 240
 ttctctgccac tcacctctac cttttgtctg gctcctctct ctctctctct gccttccatc 300
 tggggcccaa caccagccag ctgtgtagtc tggccctcgc tgactattct gctgtgtccc 360
 gctcagccct caccctcaac cgatacagca catctttggc agagacgtac aacaggctca 420
 ccaaccaggc tgggtgagac ttggcccccgc ccaggactcc ctcttatgtg ggctgagaca 480
 gcagcacctc cgtgaacatg tccatgggtg gcactgatgg ggacacctc agctgcccam 540
 agaccagctt atccatgcag atttcgggaa tgtcccccca gctccagatt atcatgccat 600
 caccctccag caatgccttc gccactaac agaccatca gggttcttat aaactcttta 660
 gattacacag cccctgtgta ctatatggat ataactctc cacatcyccc aaactggctg 720
 ccagtctcga gaaaattggt tcttcccaag gaagtttctt ggggtctcca ccgagtgggg 780
 ccatgacgga tcggcagatg ttgccccctg tggaaaggag gcacctgctt agcatggggg 840
 tcagcagagt ttctttgact ctaggaccct aggaagctta actctgtcat catctcaagt 900
 atctgcacat atggtctgat gaagccttta aagttaaatg aacatttggg atctgtctaa 960
 acatattt 968

<210> 52
 <211> 586
 <212> DNA
 <213> Homo sapiens

<400> 52

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tatgcaattt	ctttttttw	atttttttg	caagaagtct	ggagcatgat	tacattatgc	120
attttcttac	tctttaaagt	atttggggg	ataatccttc	attatttgat	tggcaaaaat	180
atatatgttt	atagtgtgta	acatgggtgat	tggatatatg	tacacattgt	ggaacagcta	240
aatacaagcta	ataacaatc	agttacctca	catacttatt	ttgtgggtgaa	aacatgtaaa	300
atccactctc	ttagcaattt	tcaagcatcc	aatacattgt	tawtaactgt	agtcaccatg	360
ttatacaata	gatctcttga	acttattctt	cctgtctaac	taaaattttg	tattccttga	420
tcaacatcta	cccaatccct	caactgtctc	cagcctkgat	aactaccatt	ctactctctg	480
ctttcatgaa	tttgactttt	ttttttttta	gattccacat	atgtgagatc	gcgcagttat	540
tgtctttctg	tgctcggtct	atttcactta	atataaagtc	cctcga		586

<210> 53

<211> 751

<212> DNA

<213> Homo sapiens

<400> 53

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aagagcttagc	gaggcggctg	gtaccgggtg	atgcttcacc	acggctttcc	agaaagcgct	180
cgtgaccccc	agggccaccc	ttcccagacac	tcacgggttc	ctcagaaatg	ctcctctcaa	240
atctctcaact	ctccctgcag	cctttgttgt	ttcttttttc	tttctttctc	ttttgcaaga	300
tgggatcaag	gaaaggctct	agacacaaaa	cgcaacattt	ttcttccatg	acagatcaga	360
tattgaaggg	ctcagtgagg	agccctgctc	tgggacaact	ccatgattag	cgctccaaga	420
ggcagtcaca	gggaagcagg	tgctctgttc	cctctcctggc	tcagcaatcc	cgagctcctc	480
ccgtcccgct	ccaggcccgag	ccagcctggc	tgctttggatc	cgagacaata	gcttgggtctg	540
gaggcggctc	aggggtgggag	ggacccaggg	acccggggcac	cagtacagca	gctgggaatt	600
caggcccgag	gatagggtatg	gggcacagga	caccaccccc	atctcacaca	gggagatgaa	660
gggtgggatcc	agcatgggga	ctggacatcc	ctgagtcacg	ctgcgccggt	acaaatggggg	720
aactgagatc	cggggatggg	atagttctctg	a			751

<210> 54

<211> 477

<212> DNA

<213> Homo sapiens

<400> 54

gaattcggca	cgagggtgagt	atggcctttg	tcttccatct	tgctcagggt	actttggaac	60
cgctatacat	tgccaggagct	tagcttctgg	ttaccatggt	ttgcttccag	agcaacaagc	120
ctagtacttc	aacatggaga	caattatctt	ttgtttttgt	ttgtttttgt	tgtgtttgtc	180
ttggccatctg	cttttttgagt	ttaccttttt	atattttgtc	catcattgcc	atgtgtttgg	240
agcagtgggc	gtttccataac	atgaactcac	tgtaccatca	cgaatgggaa	gtaaggggaa	300
acccttatcca	tgtggatttt	actcttccct	gattccctaa	attgggtttg	caaaaatacta	360
ctgtgcactg	tcttgatgat	tcgggcttat	ctttatgact	gtctgtkttt	gtgtcgact	420
gtaaagaagt	ataaaagtct	ttagcttgaa	aaaaaaaaaa	aaaaaaaaaa	aactcga	477

<210> 55

<211> 1153

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (409)..(409)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (511)..(511)

<223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1001)..(1001)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1089)..(1089)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1113)..(1113)
 <223> n equals a,t,g, or c

<400> 55
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 aggtaacatt agcttctata atacgcacac tcccaaatct cagtatttca acatgagttt 180
 ctctcttgct catgtaaaga ctggtcaggg acccagggtg acagaggctc ttcatgacat 240
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 tcccactcac cagaatttsg tcacagggcc atagctatct gcagagaang ctgggaaatg 420
 gaacttagct atgtgctcaa gaggaaaagt aaacacagta ttgaataatt agtaataatt 480
 agcaagtaac tacctagggg tcacagagga nctctcaggt agaattttaga cttaaagatg 540
 atgggggagtg gtgtggaaga gtggtgcaga atagggaag gggggattga aggaagaaca 600
 agctctagct tcacctgcac gggtagagcc cacagtgttg gtaggacat gtttagcttc 660
 aacatcagct ttctaacagt attattcttt catcggagga aattagtcta tttctgagga 720
 aaaaaaaatc tgcataacgt agcaatttgc ctccatttgc ttacttggat attgaattgt aaagcagaga 780
 gagactttgt cctcaaaacc ctccatttgc agaagtggag agcctgggga ggtcatgctc 840
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 cccatwccag tgctctttct atgaggaaag tataagtttg agcattttta aaccttaatt 960
 atgtagaatt aaccatgata ttttatcgta aattatttca ntcattctat tttaattttt 1020
 actccaaact aaaggaaaac ggtactgatt taaaacatct atcataattc aatatagccc 1080
 atattcttnc tttaggaaaa attttttttt gtnntttatc ctgaagaccc gtgccctctt 1140
 cctgtgttc atg 1153

<210> 56
 <211> 1241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (8)..(8)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (59)..(59)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (78)..(78)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (84)..(84)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (86)..(86)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (104)..(104)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (128)..(128)
 <223> n equals a,t,g, or c

<400> 56
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 caggtcctcgg ctctgcacac acananggtc ctgctggaga agangcgga ggccttcagcc 120
 tgggaacnga acctggggcta cccctgggtc atgctgtgct tgctgggtct gacsggctctg 180
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 cgaggcatgc agggtaacct cttagggcag gtctccttct ccaagctggg ctccctttgcc 300
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 tactactctc attgtgtgga ccaaaaggaga tggttaatgt gaaagccctt tgtgaacctg 480
 aagtgagcaa ctgctggatg aatgtcatta cgggcacagg ctctgtgtca tctcctctcc 540
 tagtgcttcc acagccagga ccagagacct cctgatgac tggggaaacct ggtgatgggtg 600
 gctcttctct ttatggggag cctgagtatg ctcatagctc agcttttctt ccttagacat 660
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 gggactttct gtgtgaaact ccccttcccc ctctctctt ttcccttctc tggaccacagc 840
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 agaggaaact gtgatgggag agatctaggg aggagtaaa aagtatagga gctctgggcc 960
 tgtattctct tcacctggga ccaactgatt ttaagctgcc acattgctgct gagaacaggc 1020
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 tctcctgccc tgttaccccg tgctctgttc tcttaacagt gggatgatga agatgccacc 1200
 gtcaacaagr ktgcgctcga gctgtgcacm ttttaacctgg g 1241

<210> 57
 <211> 908
 <212> DNA
 <213> Homo sapiens

<400> 57
 gaattcggca cgagattttta ttaaaaaataa gtgcttttct ctgcttacct tttactatga 60
 tctaactatg atacttttcaa tatgtgcag actctcattc ttatctttct ttgttgttta 120
 ccttggtacc tagaactctt atgttttcagc ctaatttctt catctgcгаа gacctaatag 180
 gaagaaattt ttacttttggg taagtgtgta taaaatctct gaacagctaa atttcagttt 240
 taataataaa ttttgacttt tatattattac coaatattgt taaaaggaga attctatgta 300
 tactactctc ttaaaaaatat tgctctatat attaccgcgt taaaaacaaca acagacaaca 360
 caaaaactta gaaggttaaac aaaaagtaat ctcaataaac atagaagggg aatacacctt 420
 ggtttcagat gttcacagaa agtatgtaag ctgtacccca gaagcatcct tataaatttt 480
 gcagtcagtt tctctgacct tctctttacac agggaggatt tgtgtayca atctttaatc 540
 taagtgtgat acaccaactt cctattgaa tgcctttagc cagaagaaaaa ggtataaaga 600
 tgaatgcatt tacttagaaa tgaaaatata acaaaacaa gttgggtggc caaggaaaga 660
 tatgatcttt taatcacgaa cccaaaccaa gttgggtggc tggagtaagc ccttgagctg 720
 agccaggctca gttggcatga cagtatgtgt tcagctgtgt tggagtaagc ccttgagctg 780
 aggggtgtca gtgtgggttc agccagggga ttcagtggtg aagaacccct ttgctactgt 840
 acctttgttc ttatttataa tactagtcaa gaaaaaattc tttctaaaaa gaaaaaaaaa 900
 aaactcga 908

<210> 58
 <211> 849
 <212> DNA
 <213> Homo sapiens

```

<400> 58
gaattcggca cgaggtataa tgcattcttc ttctctctgt aagtgcctgt tgggggtgtt 60
gctacgtttt tgttttctgt tgtagtgttt acatttttct tgtcgattcc 120
taagaggact tttaggttact gagtccacca tgggtcatgt ttgcagagaa gtgtcacaga 180
gtgaaaactg tcttttcoct gatactacct tttagattcat attttgggaag accttcacta 240
atcatgacta cataagtatt cacttttact ttcttaaggc ctttttctgt tcatctcttt 300
atagtaatgt ctaagccatc tggaaattag ttgttgatta tgcaagaaa ggatcgaaagt 360
gctttttctg agtcattatc cacatgccga aacattttatt gaatagccct ttctttattg 420
atctgaaaaa acctttcttat aaaaaccttg attggttttt ggaactgtctg tgccttcagg 480
agtcagaaga acattctttt gattatkgta gctttacatw aataatacat ttkggccggg 540
tgccgtggct cactgtatga atcctagcat ttggggagac tgaggcaggc ggaacacctg 600
aggtcagggg ttcaagacca gactggccaa catggcaaaa ccccgctctc acaaaaaaaa 660
aaaaaaaaa aattagctgg gcattgggtg gctgcctga aatcccgact accttggggg 720
gctgagcgag gagaacctct tgagcctggg aggtagaggc tgcagtggag cgagcttgca 780
ccactgcact ccaacttggg taacagagtg agactccatc tcaaaaaaaa aaaaaaaa 840
aaaaactcga

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<210> 59
 <211> 678
 <212> DNA
 <213> Homo sapiens

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<400> 59
gaattcggca cgctcttggg ggtagtggat gcgggttgag ggggttcagg tgccctgggc 60
gtgtcactttg taaaggcttg ccaacctaga ttgagatggg ttgtaagga atcaattaca 120
caatgccaca catttgcttg cttctgctga atgccttagt agtttcatgt ttattgctgt 180
aagccattct cttacagcat ctagtctgt gtaacgagct accttaaaat gtaaaaggctt 240
aaaacagcca tctttgatgt ctttgcaggc ctagaagta ggaagggtaa ttattcagct 300
ccaagtggca ttggctctag ttactacctg atattccagg gtggtagctg gagtggcttc 360
aagggtccaa gctgacctca cttacaagct ggggtgcttg gcaggagcag ttaggaggct 420
gtgtgtagca gagcctcact cggtctttgt attctccagg cctcttcagt ggtttctttg 480
gcacttctta aatgatgtca ggggtccagg agttaatgtt ccaagagaca ggaagtggat 540
gctgcccatac tctttttttt tgtttgtttg tttgtttgtt tttttgagat ggagctctac 600
tctgtcacca ctgcactcca gcctggggcaa cagagcgaga ctctgtctca aaaaaaaa 660
aaaaaaaaa aaactcga

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<210> 60
 <211> 857
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (493)..(493)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (562)..(562)
 <223> n equals a,t,g, or c

```

<400> 60
gaattcggca cgaggggaaa taatgtttgt ggaaaaattgc ttagaggaaa tggagatat 60
taactgtata ggtactctaa aatgtctttt gaattaaagtc agagttagag ggtgtgtct 120
ctaaaccgca tcttactggt attatgctat cagcctgtat tgaagagact tataggtaaa 180

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gtccaattta ggctgttttg tattatctat taaaattaga atgttcatgc tctgtaacct 240
gctacttcca cttctagaat ttatcttttg aagcacatat ctgtccacag acctatattt 300
acacacatgt atgaagaatg tktctcttca cattcattca ttttaacaaa tgttttgatg 360
tgtaggcgct aagctgattt gaatgcagct gaaatgcaca tatctgggtg agtcmgtgga 420
actgatttgc atgtgtcttt ctcttttatg gcttgaagag gagagaaatt tgtgcttagc 480
acattgaagg gcntacgaga tacaaggagt ctgtccttag ctctgccctt tggactgttg 540
tctgaaggct aaagaagaga gnacaaagaa agcttgcatg gggaggctga ggtggaggga 600
tcacttgagc tttagagttt gagaccagcc tgggcaacat agggagactg cactctata 660
agaaatttta aaaattagcc gggttggcag cgtgctcttg tgggtccagc cgcttgaaaa 720
gctgaggtgg gagaatcgcc tgagcctggg aggtcgaggg tgcagtgcac cgtgattatg 780
ccactgcact ccagcttggc aacattgact gtctcaaaaa gatttatata ctctaaaaaa 840
aaaaaaaaaa aactcga 857

```

```

<210> 61
<211> 767
<212> DNA
<213> Homo sapiens

```

```

<400> 61
catgaaaaaa cattctctta tagtttttaa attcatcatc caagagtgtc tgccttttga 60
tgatgagaca tacctggtag actccaaaaa agagagcaga cgcttagtat ctttgttctg 120
gggtgtgcat taagagtaca ttgacctgtc tgcctccagt cttgactctt ttggaagaga 180
gatgcagtag ctgatgacaa cctgcattct ggctgcggtg tgygtccaca ctgcacagtg 240
tgacacagac tctcgtatgt acaatgactg tccctcacat caggcgagca tccattttag 300
agcctcagaa gtcaggagag ggtggacttt caaccacgac tgaaaacact gtcttcttta 360
ggacatgctg tgtgtatgac acacttacag atgtctgtgc tcaactgatg ttgttgatgt 420
gtcactgcac ctcatgtcac aacatttgct atgtttttgc ctttgggtga acttctttat 480
tatactcact ttcctcccaa accatttttc tcaacttcat catgaagcaa atgtcatgtg 540
gtcattctgt gatggggctc agggctaggt taggtgatga tttctgaaag ctccagagacg 600
tgaagggaaa aggcacatcag tgcttggatc ttatgtctta taagcctcac gtgcaacaat 660
aaaccocgat tcaagaatca gattcttaga tagattgggt tggtagcaaa tgacaaaaaa 720
ccaacgtaaa tatgcttcgg caaaaaaaaaa aaaaaaaaag ggcggccc 767

```

```

<210> 62
<211> 728
<212> DNA
<213> Homo sapiens

```

```

<400> 62
aaatgattta gtgacctata caagtagcct gcagtagccg atccgaattc ccggtcgacc 60
cacgcgtccg gtgaaaaacag cagagtgtcta ctccatacca ctgggactct gtccagtaaa 120
catccagaga gtgaggtttag gaaataaaaa gtatataaat attagatgcc tagaaatgca 180
agtcacttta aagatttttt gtgaaataga aaaaaaagag agggagggga ctcatgtctt 240
tgtaatgggt ccttccacaga gagaggtgac tgtccagttg caccgggccc tttctctct 300
tcccccttta ctcttatcaa ctaggacaga aactaagaat tttggcttca agtggtctaaa 360
agactgatgg gggaaaaaaa aaaatagaaa aaaaatacac agagactgac gctctaggca 420
gttacaagtc caagaaaaaa gacagaaact tttaagtatt gagccaaaac caggtctagc 480
aamcataatg ctggccctag attattttat aatttatgaa gaaacttcta gatattgggg 540
tgacaaaagg aaatttaaat cattatatat gcatatatat taatgttaaa atataataga 600
taaatattgt atacataata tataaccaaa ttgaacacgt tttacaattt ggttgactgc 660
gaaattcaaa atccatatat taatttttgc agtaaaagtt tatgtaaaaa aaaaaaaa 720
gggcggcc 728

```

```

<210> 63
<211> 944
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> (932)..(932)

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<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (942)..(942)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (944)..(944)

<223> n equals a,t,g, or c

<400> 63									
tgcacccacg	cgctccgccca	cgcgctccgga	cagacccacgc	ctggagctgg	cccctggcct				60
gtgtgctgac	ttcttgggggt	cctcaaacca	ctgtattttt	ctgttgagcc	tgtacttggg				120
gagagatcac	tagcatttga	ggaagttaaga	gaaaagaatc	atggtaacct	agggtttctt				180
tcctcttact	cgctggcgag	cattgtctgt	gggcacctca	tgtttttcca	cactctactg				240
ggccgtggag	gtaacgatca	cccaggccag	tctcctctgc	ctgggatgag	ccctctgaga				300
ggaggcctag	caggggcagg	tccctctggg	catccctgga	tgcagcctct	ggacacatgc				360
ctcctttaaa	gtgtccgggt	gcagctcagg	ttgagtgagg	gtagaaggag	aaacagacat				420
gtttaccacg	cggttttcaa	agctctctgat	cttctccaa	attgtaacct	aaaactgctg				480
tctctgtgtt	gtgtcgtttt	gggggtgggt	gtgctggctg	ggccatgctt	gtgaaagtgt				540
gtgtgtctct	gatttaacgg	attcactggt	ttctctgcta	attgagagag	cgttattttac				600
attatttatt	gtttttgaca	caagtgcctt	cagtggttta	tcctagctaa	tggcttctta				660
aaggttaata	aacccttcca	acgtaattgg	tcagataaaa	ctttttttct	tgtatgctta				720
aataaagcaa	ttagtgaagc	actcttatcc	aaaatgactt	ttttgtcctt	ttttaaaacc				780
aatttactgt	tactggaaac	tttttgtaca	ataawgcaat	cacgcagatt	aaagaaaaaa				840
aaaaaaaaaa	aaaaaaaaaa	aagggcgggc	gctctagagg	atccaagett	acgtacgcgt				900
gcattcgacg	tcattagctct	tctactacgt	gnaccctaac	tnon					944

<210> 64

<211> 782

<212> DNA

<213> Homo sapiens

<400> 64									
tacgagtttt	tttttttttt	ttttgagaag	gagctctcgg	ctctgtcacc	caggctggag				60
tgacgtggcg	agactccggt	tcaaaaacaa	aacaaagcat	caattcctga	tcattgaccca				120
ctgtaacctt	aagcaagcta	caagaatcta	tactatgggt	cagacctttg	aggctgacag				180
cgagctttga	gtttgatgac	agtaacctaa	atatattaag	tgtactcagg	aactggccaa				240
gcattggggg	gggcttgatc	ggaaacctgt	attctttctt	tctatttgta	gtgaataaga				300
tgctcaatag	acgactttta	ctcctctgta	atggctcgat	aactgtctct	ttttagacac				360
ttatgaattt	gtctgaacct	ctcctctcat	ttctccaact	cccgaagaag	tgaaggtaac				420
aaatgttatg	tccaaccac	ggtttgttcc	cagacctggg	tttccaatgc	ccacctcttt				480
tccaagaagt	ccaagaagac	gccccctatc	gcaagggaag	tgctaccgtg	ctgcctcgat				540
gtcccccctg	gggtgccatt	ctgaaacatc	gaacctctcc	tacctcttct	ccagccgtcc				600
ccctcatctc	cgctccccgc	ctacctcttc	ttcaacttca	ttcattctac	caacattctg				660
tgggggattt	ctacattgac	acgccccgga	cagaagcctg	gggtaaagat	gatcaggaac				720
acgttccctc	ccgctaagcg	gctttggcaga	gtaagaggca	tcccaaaact	cgtgccgaat				780
tc									782

<210> 65

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (306)..(306)

<223> n equals a,t,g, or c

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<400> 65
gaattcgcca cgagtagacc agaagggtga gtcagttggt agtgtggggt gcatgagggc 60
cattgcaggt tttgataatt accctttatt ttaatttgat catacttttt tgtttataac 120
cttattctaa aaataattca aggtgacccat gcttccatta tacttcttgc aaccatacct 180
atctttgggtg atatttatta tgTtaaggga caattggcat cttttggccc ttacctgtag 240
ctattctate atctggagat tatctccaga cacaatatca tcgcccattg ctccatcgag 300
gcacatcag ctcttctgtg ttgccattgc cctctctgag ccttctccac atagccacat 360
gcaatccatt cccaaaaacc tagctcaatt ttctcatca cagatgtttt cctcgaccct 420
ccagttggta tatatctcct cc 442

```

```

<210> 66
<211> 833
<212> DNA
<213> Homo sapiens

```

```

<400> 66
gatcttgtcc aagcagtcgg ggctacttcc aagaatgtca gctcctgtta gcaaccagtg 60
gagtcgtggc ttgggctcta agttgacctc tctatagetc caaatcctac caatctcaga 120
aaactgttaag aggcacagat gactccacca gctgcagagt gactctgaag agagtcttca 180
cttactgcac aggcacaagaa aggcacagga atatttcccta cctctccctc ctgtgagttc 240
cacctccccc cacccccctc tccaggaggc aggtagagca gttctraccc agaggataga 300
ctgctgttgc tgtctttccc cagctctgaa ctagttttaa ggtagcttag gatgaaaaat 360
ggagaatgat tgggggttcc aaaccacttt yttctccctt ggcttatatc tcttccacct 420
ttgggtggtca actgtgggsc taccctggac ctcatctact cagcgagaat tggacatgaa 480
gctagaggca gctgccttgg aagggaagtm aggcctactt ggacagccca ggccatggca 540
ggaagaatcc ctctctcttg gggctccttga tgggcatgtg tgatggggaa ggagcagttc 600
cccagccctg ggcctgctcc ccacatctct cctaattcca ctccaccttt tggccacccc 660
tcccaccagg aggcctagcc cttttgtcac cgaaggcccc cagagtgttt ctgtgtgaaa 720
ccctctcatt tacactgtgg catcaaaatc cacaagaatg ggattaattg cactctggtt 780
aatagcagca gcacaatgat taaaatctat attcctaaaa aaaaaaaaaa aaa 833

```

```

<210> 67
<211> 1262
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (621)..(621)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (641)..(641)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (722)..(723)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (726)..(726)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (730)..(730)
<223> n equals a,t,g, or c

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<220>
 <221> misc_feature
 <222> (1259)..(1259)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1261)..(1261)
 <223> n equals a,t,g, or c

<400> 67
 ggcaccagaa aaaaaaaga taatccaaag aatttaaat gtaatcatgt ttcagtatt 60
 tgttttatta cttactttta tagcacttag tccagtggt attagactgc tatttggttt 120
 catacaaaaa ggattaaatt taaattcatt catgtttaga cttgagttat tacattttta 180
 aaactatcat cttgccttta atgtttgtgg tctacacaa actattagta catttcagta 240
 tctctttacc ctttggtttt taagtgtttg attgctaaga caagactttt ttcttctaga 300
 atttaagtta accaagtgtt atctatgttg taaaaatgga taatagtaga ttttagtgta 360
 taaaacaact tgttagtaag acatttccta gcttaaaaaa aaaaatcaaa aattccatga 420
 tagaaatgca gacctgtgag ggaaactcct gaaaagcata agaagcatcc cagagagcca 480
 tgggtttttc agaccagaga atttagaggg agatttgga actgaggctt aggtgggtcag 540
 atcgtttccc ttatcactgt aatattttct ggggaaaaaa tgcctttctga gttgtttaaa 600
 caagcatcct tacatttttt nttaatttaa aacagcctgt ntagggcttg ggattcccta 660
 atactacagt agcagtatat gaatatgatt ttgtgattgt gttttttaaa agataagtaa 720
 tnnngangaan tgttcttttg cagtcagaaa acactcacaa aaagacaaaa aaggttccac 780
 agtatatatat ttcatgtcag ttcaggccta aaatcctttg caaataagat gtttataggc 840
 tgggtcacact taacaatggt attattggca gcactctctg gatggatacc tttggggacc 900
 tttcattaga aagagggaag gaatgggggt gttttgtatg ggcctctgtt tggggtaaaa 960
 atagcagagt cagtgtctga ggaccaatga cctttcctta taaacattta gtttccatcc 1020
 catattaggt cttgtcctga ggacccttta tatgtgcttg tttactagtg gcttccacagc 1080
 catagcattc ttaccttttt ttctattct aagaatttaa aaaaaaatt atagagccagc 1140
 caagggagga gcagagaaac agaaatcgaa ttccatcatt ccagtatagt tgcctctttt 1200
 tttgtatttc tgactgtggt ttataattat atttacttac taaaaaaaaa aaaaagggna 1260
 na 1262

<210> 68
 <211> 921
 <212> DNA
 <213> Homo sapiens

<400> 68
 ccacgcgtcc gaccatgcca aatttcttgt ggttccttaa atgcgcctatg tttgaagata 60
 cctctgagga attgtatatc cttttgttct acctgagata catttgctta ctttctccac 120
 atattgcccct catgacactt atccttattg atggatttct tcaatgctac tttgtgctct 180
 tcatctgccc ttgtattata gcatttttat agcatttctc acccaattgt ggctatttgt 240
 ttacatgtct gtctccttgg tggaaactgtg aactctgtca taacagatgc cattttatgt 300
 cagttagact tctttgggtt ccagtaagag aagctgactc taacttaaac caaaaggaat 360
 tcattggagc gatgtgggtt ggttcacaaa atcaaaagga caactcgga ccgatcttgg 420
 aatgatgtct tgacaccaga acagctctgt gaattcagat aggggttagtg aattgacct 480
 ttcatcaaat gctgcagcaa gctaggtggt tccccaaa gaaattgagg agtggtacaa 540
 gaagaccatt aggggaaacgg ttatctgggtg gctgataata acaaatcttc atggcagctct 600
 ctttctctct tgttgaaga ggtactccac catgggcctt gagcatctct acacatcctt 660
 gctaagcgtg tcaaaattca agtctaaact gtctctctgc tctggaggag gagacaggtt 720
 tggttactgt ttgttgtaaa aattactgag cctttcacca tgggtgccc agctgtatgc 780
 aaagcccctt gtattgctgg gggacagagc aactggtact gccatgctgg tgccttggct 840
 gtttgcgtgt ggcaataaac tattctgttt tggttcaaaa aaaaaaaaaa aaaaaaaa 900
 aaaaaaaaaa aaaaaaaa a 921

<210> 69
 <211> 478
 <212> DNA
 <213> Homo sapiens

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```

<400> 69
tttttttagca tttcacgcta tttattcccc aaaaccttct gccatagaag acagccacca 60
tacagattgg aaaatgtgga cgaggagaaa aggggtgtat ggtaagcaaa ataaattgta 120
ttttccatcc ttggggagga taaaggaaact ctttgactcg ctataatgaa cagcccccaa 180
atgccagtgg ttaatttcag tggagttcag acctcattcc tatacattg cagtgtggat 240
gtcctctggat gaaggetctt gtaggttaact ctctccagtg cgggtattca gggacccgag 300
ctccttctgc cttgcggctt tgccttttaa aggtcctcag ggtgtctctc atgtatcttg 360
ccaatgggga acgagtggtg aggaactaca agcgggtcyc acatcacgtc ctccgggggt 420
aatacacatc ccttctcccc acactctgtt ggtcagaagt cactgcttgg cgccctgc 478

```

```

<210> 70
<211> 719
<212> DNA
<213> Homo sapiens

```

```

<400> 70
gaattcggca cgaggagaaa ggagggaagg cacagcgctg gccagagatg ccagaaaaacc 60
tagttctaat cttggccttg ctgctgtcag tgtgtggcct taagcaagtc atttttctct 120
cgccctcaat ttactctaaa atgtgtaccc tcatagctac taagaaagtgt gttgcacaaa 180
cagaaatga tgcttactgg tatttaatta gtctcaaaac catagtaggc ttttaacaat 240
tagtggctgt cattttcatt attattaggc gcttcaattt ttacatgttg gcaatctcaa 300
acataccatt ttcttttttt taaaaccctt ttttttkttt ttttttttga gacagaatct 360
ccagcctggg agacagagca agaccgtgtc tcagaaaaaa gtggggcgcg gtgcagtggc 420
tcattgcctgt aatccacgca ctttggaggg ccagggcggg cgagtcacaa gatcaggaga 480
tcgagaccat cctggctaat gcggtgaaaa catgtctcta ctaaaaatac aaaaaatttg 540
tcgggcttgg tgggtggcgc ctgtagtccc agctactcag gaggctgagg caggagaatg 600
gcgtgagccc gggaggcgga gcttgacgtg agcagaaatt gcgccactgc actccagcct 660
gggcaacaga gcgagactct gtctccaaaa aaaaaaaaaa aaaaactcga 719

```

```

<210> 71
<211> 519
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (13)..(13)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (24)..(24)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (35)..(35)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (44)..(44)
<223> n equals a,t,g, or c

```

```

<400> 71
accaaaagct ggnagctccc accnecgttg gccgnccgct ctangaacta gtggaatccc 60
ccgggggctg caggaaattcg gcacgaggtt ttgttttgtt tttttctaact cctgctttca 120
tactagccag tgtggggaaa aggtacaata tgtcaaaagag atgagagagt gtattttctt 180
gggcaatttt ctattagtgt ttcttatttt ggccagttct tttatttatg tccttgtgac 240
ccaggtactt gggggggccag ctacccttct ggcccttttag cgtctttgaa ggagaccaga 300

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09973278-101001

catgagtgaa	tacctaggag	agtgtcagca	tgtttctgga	aaattggcag	agaccaagcc	360
ctgctgcaga	ttcgtcaggc	caggtgaaag	ggccaggcag	ttgcagctga	tgatgtaaat	420
atthttgtaca	gtagataaat	aatgttttaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaataaa	480
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<210> 72
 <211> 826
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (726)..(726)
 <223> n equals a,t,g, or c

<400> 72						60
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ggaccttgcc	acactgctgc	agccttccag	taggatattgg	gggaatgtca	gtgaggctcc	240
agggatgtag	atatgttagg	aatgtttggc	ccaggggcaa	catgcaatct	ggtaggaatt	300
gggctctcaa	aatgggtgct	ctgtgttaac	gctgcttggg	tcttggggta	gggagtgtag	360
gaccagcagt	gagctccctc	tttgagagcag	gtctgtctga	gactccaggc	agctccgtgt	420
attagttctca	ggacctgtcaa	aggcctaggg	gctctttttg	ggtaggactg	caggagttctc	480
catgggtggga	atgtgaacca	ctggaaatct	ctcatttacc	atttccctgt	actggagatg	540
ctttctgggc	tccagatga	tactarctgg	gctggttgcc	tcamttcctt	ctccctctgt	600
gcataaggca	ttttctgtca	cttctctgct	gaactctagt	gttctttctt	agaggctgta	660
ctcacaagtgt	cattatccat	tcagtatatt	tattctctct	tgtggagagt	gcaagtgtca	720
ggtgcctcta	gtcaatccat	ttgaagcccc	ctgttatgtt	aaagtcttta	atggaataaa	780
aagacnacat	gcagtaccag	gcagataact	tgagcagagt	cataggaact	gctaaaaaaa	840
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaag	gcgggc		900

<210> 73
 <211> 911
 <212> DNA
 <213> Homo sapiens

<400> 73						60
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cagctctgtt	tgaggaggcg	agaaggcaaa	gccaggggcag	ggcgtttgct	tgggaaagcgt	180
tcggtgaaag	crngtttcga	cgcttaggag	ggccgaggga	gaagattcca	ccagcatgtt	240
ccttctctca	agtttttagga	tgtctgaact	ttcagctttc	atgtttttcaa	ccatcatctt	300
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cattcgcgtg	ctcccatcat	gtaatagaat	cgcttccaga	aaggcagtta	actggaagca	480
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ccctcgacc	ccttgtgttt	tccctctga	ggggcccaag	ggttatggct	ttcatgtcta	600
gggtgaggga	cagaggagag	agaggcagat	ccygggccc	gagaggatgg	ccctggctgt	660
aattctggagt	aattaatgcc	cacccaaaga	aaagggccctg	cccaggttca	atctgttctt	720
agatctgatg	atgctgctat	ttacaaaaaa	ctgatcgctc	gaagacttga	atctgttctt	780
cctcgaatga	ccctgttagat	gcctgacctc	cacgctacct	ccacatcact	atctatgttc	840
ttctaggaaa	atgtgcacat	gcctcagcga	ctatgtggga	agggcgtgtt	tttaaatata	900
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aaaactcgtg	g					

<210> 74
 <211> 722
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (2) .. (2)

<223> n equals a,t,g, or c

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<400> 74
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cataaagtgg tcaccaacaa gggcacttct gaggtgctaa tgatgttctg tttctgatac      120
tgggtcggtg tgacattcac atattcatta aattgtacat ttgttttaca taagttttat      180
atatttctta attttaaaaa agttaaagg aggaggaana agttggttat gaaagtgtaa      240
ctattcttcc aaaatatcaa ttaaaacaca tctgaattaa gaggttaaat atatcaaaaga      300
ttgacagaaa acaaaagctc tgaatgata ttccagcct aagaacagtc gttgcttttg      360
ttggtttagg aagttttgtt ctctgaaact aatgttcaaa atgaaaaaaa gtcacctggg      420
ccaggagcag aggccacac cctgtaacct agcactttgg gagggcagrg tgggtggatc      480
acaaggtcag gagatcgaga ccatcctggt taactgtgtg aaaccccatc tctacaaaaa      540
tacaaaaaat tagctgggct tagcgtggg catctgtagc ccagcgtact cgggagattg      600
aggcaggaga atggcatgaa cctgggaggt agagcttgca gtgagccgag attgcgcac      660
tgtaccagcc taggtgacag agcgagactc cgtctcaaaa aaaaaaaa aaaaaaactc      720
ga

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<210> 75

<211> 845

<212> DNA

<213> Homo sapiens

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<400> 75
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cgggtatttc aataaaaaat ctcttggtta tgaaaggctc cattgatttt attaaagcctt      120
cctttacott tagttacaag gtgctttaat gggatagaac taagcatatc aatatctata      180
actgcatttt gtgctagaca attactgttc ttttctctaa aatgtatatg tcaatttaca      240
aggccaggga tagaaaaaac tccataattg ctcttcctga ttttgctgag gatttggtat      300
gatttttaga agcaaaactgt tttttggtt ttctcttaag tttttaattt tttttctctc      360
tgcaacaatg acggtgcatg ttcttataaa tataggaagg tccagatata aatagtaacc      420
taaaagtctt gctgtgctta aaaaaaaaaa tcatgtggcc ctctcaatat ttgaactgct      480
aagcaatgac atctgtagtt ttatctcctt ttttatgtca tagaaaattaa tatgatactt      540
taaatatgta aataataact attaggtaat gctattattt atactctgct taacataatt      600
taagtgtgat ctgtgtcttg gaaatatatt taaggtaact tatatttaca ttgctgtgtg      660
taatgctttt taaagtttgt atacatcaga tgtaattttt tgggttgcca taagctagca      720
ttgtaatttt tcttggtctt ttgttcataa agaattttt gaaggaaagg taacaaactg      780
taatttcaaa atggttgtga ataaacacat ttttacactt aaaggwaaaa aaaaaaaaaa      840
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<210> 76

<211> 882

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (881)..(881)

<223> n equals a,t,g, or c

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<400> 76
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gggctgagaa agggcgaggc aaaaatgaagc tggccactga aaactgtaag atgggcaaaa      180
gctgacagcc tgggtatgtg aaaaagggaat tgtaaatgga ctgcaatgta atgtacactg      240
taatttgaat acaattactg tatctaaaag gagctgctat gaagtacctt tcttatgttg      300
ctaggctact gtttctgaaa gccctggatc tctttgcacc aaaaatggtc cagatagact      360
cttttttaag atcttggctg ctctttacta gaagggtgct tttatgagca tatttatact      420
gctgaaggat gagtgttaat ttttaataac ttgtccgttt tgtagagaaa actattccac      480
aagataaatt ccaagtcttt tcacctgtca ggcctgata ttttaatact ttgttgagata      540
gtcagaagta gaatcataaa ggtaaaaatg gagtgtgtac tttgtttctt cgtatgctata      600

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ttttatgtgt	aatatata	taaagggcca	ttcttaagtt	ctctecttaa	acttaagtgt	660
gtcaagtgtt	agatgtgtgc	atgtgaactt	gttgcactgc	agaaacatat	tcagagttta	720
tctatgtaac	ttattcactc	tgtataatata	tttaaagttt	ttgtgatgta	agcttaattg	780
atattctgtt	cagaacttty	tttagwctaa	araaagtctt	gaacagaata	tcaattaagc	840
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<210> 77
 <211> 1590
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1374)..(1374)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1397)..(1397)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1516)..(1516)
 <223> n equals a,t,g, or c

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catccacactg	ggaacagatc	aagaagctgt	cacagatggt	gggagaaaaac	ctgagggaaaag	240
cgggacaacc	agtcacaaat	agtaatttaa	tggtagctat	gatagcagtg	atcaccattg	300
ccgtgagatg	tccttcaaca	agggctgaca	cagagatcag	ttatacttat	tgggcatatt	360
gtgtcaatttt	ggctgccaat	aatgcctgga	tataatcaact	ttatgacaca	gttacacatg	420
ctttctgggtc	tcaatattta	ccataataag	ctgtctccta	taattgaggg	ataccacctt	480
caaaaatcta	tttgtaaaca	aaattgaacc	tggtccagaaa	aaatgaatgt	acttttttag	540
gaaggttgca	ttgcagaaca	ggcagaggtg	ctgcacaacg	attcctatgg	aatcattatt	600
gatttggtccc	ctaaggggat	gtttagcttg	aattgcacct	cttagtctgc	atgtcacagc	660
cacactgtgt	tcaactggtc	tgaacagaat	ggtcagatgg	tacaaatggt	aagacgtatg	720
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gatattgcaa	aatatatata	tatatattaa	gcctcccagg	cacacctgac	cttaatgcca	960
gaactggagt	gctcggaagg	gctgcagaca	gattagcagc	tagtaaccca	ttaaaatgga	1020
taaaaaacact	tagaagctct	gtgatttcaa	tgatgattgt	gcttttaact	ttgtgtgttt	1080
gtctttatat	agtcgcgaga	tgctgatctt	gaactcctgt	agaagttagc	caccgtgaca	1140
aaagctgcctt	ggctttttat	cgcttttgcaa	aacaagagaa	tggggacaag	ttcgggaacg	1200
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aaacaatagc	atgagctatc	tgtgctttaa	ggacatgttc	atgctgcaga	taaatagcca	1440
gagcccatcc	ctttacctcg	gcccatccct	ttattttcca	taaggaaatc	ttatagttaa	1500
tctatagaaa	caatgcttat	cactggcttg	ctgtcaataa	atatgtgggt	aaatctctgt	1560
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<210> 78
 <211> 1373
 <212> DNA
 <213> Homo sapiens

<400> 78

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aaaaaaaaaa	aaacttttcag	aaaaatgata	atgggaggaga	tctttctcaa	cttgataaaag	120
aacatctaca	agagccccccta	cagccaatgt	aacacataat	agtaaaagac	taatttgcttt	180
tctccatat	cagggatatt	agggacagag	atgtctgtcc	tcacctctct	tattcaacat	240
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aaaaagaaag	aaacaaaact	gtctctattt	gcaaatgaca	tgattctcta	aatataaaaa	360
cccaaggaaat	ctacaaaaaa	aactagagct	aggtgggggtg	tgggtggctca	tgctgttaat	420
cccagcactt	tggggaggctg	aattaaagg	attacctaaa	ccaaagaagt	caagaccagc	480
ctgcgcaca	tagtaagacc	cccatctcta	caaaaaattg	aaaaattagg	tggatgtatt	540
agctactcag	ggagctgagc	tgggagggat	tgtttgagcc	agagagggtca	gggctctgggt	600
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gacacaaggt	caatgaaaca	gaatagagaa	ccagacacata	gaccacacata	agtcacacca	1260
tggtgatttg	caagggtgca	aagcaactc	attggaggaa	ggcagcctat	ttagccaatg	1320
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<210> 79

<211> 1107

<212> DNA

<213> Homo sapiens

<400> 79

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gtgattttat	ttgtccagta	ttaaggaatg	gttatcttcta	tcattctctt	aacatgtttt	180
ggtttctcta	atggttctatt	ttccttttagc	ttgtgaaat	tagggcagtt	ttccagagct	240
cttactcgca	ggagacacac	gacccaaccc	atgcttagat	ttctgttaat	aaaagggaga	300
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gggtagattg	gctgtgtttt	gtgtctttta	acatgatcaa	atgattcaac	tttatgtctta	1080
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<210> 80

<211> 1129

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1053)..(1053)

<223> n equals a,t,g, or c

<400> 80

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ctcaggtgat	gtatgtcccc	aggaagggtc	tcagtggttt	ctttgcaggg	atcacagcta	180
tggtctttgg	tatctattgc	aatcatgggt	ttgcttctat	tttgaatttg	tctgtcttat	240
ctcttggaac	tcaaaagttg	ccttcagggt	aggcatgcta	ctgtttttat	atctgcacc	300
caattttca	tgtaaaatcc	taatcacaga	tggcaactag	ataggttaaa	atgattttctg	360
gaactttctc	cttggacatg	taagatccta	aaatcttaac	agaatttcag	tgagttgatt	420
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atattttttc	cattatttat	tttctgacc	ttaaaacagc	ttttctacta	aaaaattgggt	1020
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<210> 81

<211> 1987

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1554)..(1554)

<223> n equals a,t,g, or c

<400> 81

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ctgtgcccac	aatgggatgc	caggaaacct	caagagtggc	tgaataacct	gcagagtatt	1920
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aaaaaaa						1987

<210> 82

<211> 2053

<212> DNA

<213> Homo sapiens

<400> 82

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ttccagagct	tctcgtagtc	cctaactcgac	gaggaccccc	aggcgcggtt	agargagctg	180
actaaggctt	tggaacacagaa	accagatgat	gcacagtatt	attgtcaaa	agccttattgt	240
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aatccaaata	attccactgc	tatgctgaga	aaaggaaat	gtgaatacca	tgaaaaaaac	360
tatgctgctg	ccttagaatac	ttttacagaa	ggacaaaaat	tagatagtgc	agatgcta	420
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agtcacaaag	tttcatctct	catgttttta	ttatttttaa	tttcagctac	caaatatatt	540
tgagacaaga	ctcaggatga	gctgtctgat	atttaaatat	taagcaattc	catttaagtg	600
ctggttcttc	taggcactga	aataaaatca	ttttttgata	aatatagaag	tttcagctca	660
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aggttcaaca	gtttgaatca	cttgtagggc	tttttatgat	aggctaagac	aaaagttaaa	840
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aaagaatgaa	aagttggagg	gaaatgcagc	ttttaaacaga	tattctcagc	agatctattc	1860
agatggttct	gatgaagtga	aacgtgccat	gaacaaatcc	tttatggagt	cgggtgggtac	1920
agtttttgat	accaactggt	ctgatgtagg	taaaaggaaa	gttgaaatca	atctctccta	1980
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<210> 83

<211> 1193

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1080)..(1080)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1186)..(1186)

<223> n equals a,t,g, or c

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<400> 83
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ggatatgaaga gtgttatattt cattcaaaagt gttattttgt ttttccctcc aatgtctgga 120
gaccaccaggc gcactctctgg gctggatgag ctcccacaag cctgagggaa agggccagcac 180
tgctatgcag tggcaggcag aggccaggc tgccgtcccc tagagtccca gttgtgctct 240
gccagtgcct gtccctttacc aaagatgaat gaagcaaatg tcatgtctgc ttattcaggg 300
aaggaggagc ctgtctctgcc tgtggccatg accctgctcc tcccaggcag gggcccgcga 360
tgtggaactg ctgccactga ggggggagtc agttttgtca atgcagtgtg ctctgtttta 420
caagtgtggag taacctcttat gctgtaccga gtttctaaac tggagactgt gtgtgcccct 480
tgtctctgag taacctcttat tggggcttgg cctaggctgt cattgaaaag actggaaggt 540
tgtggccttt gcgctctctgg cccagccttt gttccccact ggagcagaag gggagatgga 600
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ctctcaggct cctgagctgt gacctgtctg gccagagccc actccatctg gtagaaggga 720
aagcccataat gctaccacca gctgtgtcca aaaccgccag ctctgttctt cctcagccag 780
cctcgcccat ccccttgagg tctcagcccc ttccctctgt agctcctccc ctggaggggg 840
aatggcagca gggggttggg aaacagcctc tccaagcagc ttagagttgg ccatatttac 900
ctcagcctgg gcgctgtgct tttcttcccg cccctccctc ccaaaatgtg cctattgcta 960
gagctcctcc ctctcaaacac ccagtttccct tgggagttgt cattaaggga aaaaaaaa 1020
aaaaaaaagg cagctgcccc gggatgggga gctggggatt atgtccagggn 1080
agccctgcca gccatgccta catccccatg ggcacagaa aagccaaagc tctctgtgta 1140
tgttgacgat gcacttttat gaaatgtagt ttctatcgct gtttttnagcc ttt 1193

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<210> 84
<211> 541
<212> DNA
<213> Homo sapiens

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<400> 84
caggagcaag gctttgtgct atatctacat aatcttagac cctgttccct ccaattccag 60
ggatatgctc ttaaccactg cagtataaag ctccccgya cactctgagt ggagcagagg 120
aaggtgattt tgtctttgag aaaggcaagg atgaagggca agatttgagc catgtgtgta 180
gatcagaaga aagatctgat aacaggctta gggatcaaaa ttgtaaggaa atggcttcag 240
gggagtgagg cctggccctc ggagagggag gagagggaa ggctaggctc ttatgtaca 300
tgctgtccat ggggctctgg aagattcmgt gaatcactaa ccattttcac aggtgaggca 360
atttgagctc tcagactgta agtaactgac ccaaagcctc cgtgctcttg tgtggcagag 420
ccagaagtca aatccaggct tctgtgamet caaggggcac caaartgagt atcaaaaagg 480
cagaaggagg cttatccctt cactcactca gcaaaagcat agtaagcagg tggctgtgcct 540
t

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<210> 85
<211> 985
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (633)..(633)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (642)..(642)
<223> n equals a,t,g, or c

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<400> 85
ggcagcagca cccccccctg agaccaggga gcattttatto aaggaaacac ttgtcttttag 60
aggatgttga cgaatgcccc aacttaactgt agctgtcagg aaaattaggt gagctattta 120
gttatcattga gcttcatttt acagaaacag catgtgtgtcc ttgacattcc ctctgatcct 180
tttaggtctc aacttacata ttgccctctt gagcctctta ttgccagac tgagttagga 240
accccaaccc atgctggact cagtagtctc ttccacattt gtgctgtaat tggctatacc 300

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ccatctgtcc  ttctgtccag  actaggagtc  tctgtcgggc  cctaacgttc  ccaatttcgg  360
gtgtttggag  tgggtgtctg  tagatgttta  gggaatgaaa  gggtaatgaa  taaattaatg  420
aaacaaataa  gaatcatata  gtattagcag  cactagataa  aaggtgtaaa  atcttaagtg  480
atccaccatc  ttttaataaa  ttcatcmaa  cgatatttca  aatgcataac  acctccaaga  540
aatcgtttct  gcatttcrrs  tgasttctac  gatgcwvrt  gaatgarraa  rsrrgracac  600
ggyrtgggtc  tggggggctg  tgagagtaac  gngcaatcc  tngtctattg  cgtagttatc  660
tggccatcca  gggcttctca  ggttgcmaa  tgcttctgta  tagtctctgt  tgcaatctta  720
gaggaaaaat  aggcataatt  aatgtacgca  ttccaatatt  agaaaaaagt  aatccagctt  840
caggaaatcat  tcaaaaagat  cattgcattt  gataaaactt  agtaaatgac  tcaagcagca  900
cttcgtttac  ctttgagata  attgagaccc  tgagcagtga  agtgaattgc  tcaagcagca  960
cacacagggtg  caacgcaaca  gctcgttcac  acaaacacgc  ctacaggaag  catgacacag  985
gaggtctctc  ctttaaaagc  gaata

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```

<210> 86
<211> 889
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (117)..(117)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (292)..(292)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (341)..(341)
<223> n equals a,t,g, or c

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<400> 86
tgtaggtgta  attattgctt  cacatgtggt  cagcgtttga  aaacttattt  tggggggagt  60
ataaaagtag  atacagagat  tccttgctca  tagctctctc  tgctatcggg  gaacaanctt  120
tgagggttag  aacgtggatt  gatctctgat  tgatagtggg  gattccatta  tctgtatttg  180
gcagttatgg  cctgctcggt  tgtatagaag  cttctttcca  ttcatatttc  cgaattttca  240
tactgtctaa  ggaacagttg  ggggggaaatg  ggcagaaggt  tgggcaactg  angattttga  300
gctatcgcta  ataactgact  ttttagggcg  cacagatttg  nagtagagcc  atgtgtagtag  360
ttagtaccaa  tgggtttttt  ctgcttctac  tctttcttaa  cagaaaaagt  ggattgtggt  420
catataggaa  agcagttcac  agactgtctt  cctgccccct  ccgccacca  gctggacctt  480
gaatacaagt  tgactttaaa  tggggaaagc  tgtgttacag  ttgtgcttaa  gccactgtctg  540
tgggttaacc  tcactatgac  ataagaattt  gctcgtggct  ggccggggcg  ggtggctcga  600
gcctgtaaac  ccagcacttt  gggaggctga  ggcggggcga  tcacagagtc  aggagattgg  660
gaccatcgtg  gctaaccacg  tgaagccccc  tctctactaa  aaatacaaaa  aaaattagcc  720
gggctgggtg  gcggggcgcc  ctagtccccc  tactgtagtc  caggctgaag  caggagaaatg  780
gtgtgaaccc  aggaggcgga  sttgcarcga  gccgagatcc  tgctactgca  ctccagcctg  840
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```

```

<210> 87
<211> 558
<212> DNA
<213> Homo sapiens

```

```

<400> 87
agctctaata  ttactcactw  tgaaggsaaa  gctggatacg  cctggcaggt  accggttccg  60
ggrattcccg  ggccccatca  caccctatgg  gggagagcga  atgttacagg  aggtctttctg  120
gtgcctcgtg  cacatggact  gtgcattgtg  attttgccta  aggtcagcct  tatatgctat  180
gtggaaactg  ggtatggaaa  accatgaaac  atgattattt  ttctctagca  tgcgtgtcta  240
tgacttcaac  tgggtgtatt  ctttgtactt  tataatctac  attatcatta  atacctacat  300

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cttcaagtct	gtctttctgg	ccatggtgta	cagcaattat	aggaagcatt	ttcacatact	360
gtgtgtgtgt	gtgtgtgtgt	ttgtagtga	tgaacagac	ttgtatttta	cccaattcta	420
ttatctatca	taatagtaaa	ttagctacta	taatagacaa	aagtatgact	ctcagttaaa	480
taagaagattt	tttaaaaaat	gtttacaaaa	aaaaaaaaaa	aaararaaar	aaaaaaaaaa	540
aaaaaaaaaa	gggcggcc					558

<210> 88
 <211> 931
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (930)..(930)
 <223> n equals a,t,g, or c

<400> 88						
gaattcgcca	cgagaaccag	atgtttttcc	acacagaatg	ctagtctctt	aagacacagg	60
ctgggtgaca	tgtttcctta	gagtgacaat	atttccttat	agtgacattt	tccttgactg	120
gtcccatgca	gaataggagg	atatagaata	ggaggagaa	gtttctgctg	tgggcacctgg	180
agtggtactt	gggtgcacgc	aggtgctaga	caatgtgtgt	gacaaggatg	caogtgaatt	240
gccccccccc	gagtgacctca	gtgactgcag	taaaagtggcc	cttgctatgg	tcctcttctt	300
ctttctgcat	cagtcctcat	gctgggcggc	atgaagagag	aaacaaaaac	cacctttctt	360
gccagggtct	tagtaccatt	tgctgctctt	atctttcaag	taaggagagaa	catctaagaa	420
actttatcacc	gtatttcatt	tagactgtta	gggrtttaac	tcctcaccta	cttcacctg	480
tggtctgggc	tggargttca	gagctaartg	ggctgggtgt	aaatcaggat	tcgcctccctc	540
amtagctgtg	aggctgtggg	taattcactt	catctctctg	agcctctatt	ttctcacctg	600
aaaattggggc	atgctaatac	ttttccatct	ccttcccagg	gttcacagga	ttaaatgaaa	660
ttattaacac	aaagtctctt	gacctgtagg	gggcctgtac	gtggccaccg	tcctgggtgct	720
ggacactggg	gtaagagttt	ggaagctatt	ggctggggcaa	gggtgctcac	gacctgaatc	780
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gctaacacgc	tgaaacaccg	tctctactaa	aaatacaaaa	aaaaatttag	ctggggcgtgg	900
tggtcatgccc	ctgtagtccc	atctactcgn	a			931

<210> 89
 <211> 588
 <212> DNA
 <213> Homo sapiens

<400> 89						
gattcggcac	gagatcaaaa	tggccagttc	tgtagacgta	aaagaggttt	gtgtctttatt	60
taatcttttt	ataataataa	cagctatggt	gtatcacagc	tttaccaagt	accagacact	120
gttctaaggg	ctttgcatgg	ttcactcaat	ccttacgcta	tcctctgctg	gcagggtgctg	180
taattatcct	tatatgtcag	acaaggacat	tgagacagag	gtcaagccac	cttcccaagg	240
gcacacatgg	catctgcact	gctcctgacc	gaccgcagaga	gagagctgct	gtcacgatcc	300
tcaaatgagc	tatgcatgtc	aaaagtttaa	aaataaaaaa	gataaaaaaa	tgacacaaat	360
ttaaaaagta	aaccatttca	agctggacag	actaaaaact	agagatggcc	agagaagagt	420
atgaaagata	aatctatgga	cagagtaaac	cctgactgyc	ttgaaattag	ggcccttact	480
ctccacact	cctgacgggt	tggttcaaga	ccargaawta	gaagcmcmct	gtgagttcta	540
cggtgctgcc	ctgggaaaca	cacaggtctaa	acacacccac	aggctcga		588

<210> 90
 <211> 812
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (443)..(443)
 <223> n equals a,t,g, or c

0973270-10000

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<400> 90
gaattcggca cgagatgagc cctctcttgg cttctgggta tttaaaaaga gctcttgga 60
ctctctctgag gtcttctctgg gacgagaaca gtacacatgg tctggaattg ggttgcatgg 120
aataactttc aaggaaagcc actgaataaa gtgccctgca tctctgtcca ttggatactg 180
ataatgctat aagatgatct tctctctctt tatcttgggt gagattattg tgactctctg 240
gctaaactcct acttatcctc aggccttttc tgaactcaca attcaaatga cagctccctt 300
tgggtctctt ccacagcagt tgtacttaca tatgtctatt atataaattt gaattgttct 360
atattgtcgc ccttacaggt aaactaatga atttgggctt ccatctgttt gctcaccact 420
tgatcctggc agtagcacac aangggctgt caataccctt ttactgaatg agcaaaakgga 480
ctggaccact tttagagact ggagttatcc cttaawaccak gtgagattga wttttgagga 540
cagtttaccac ctggaagctt ttgcagaact aaggctcatt ttacagtata cataactctt 600
gctgtgtttg ttgatactgt aagttttacat ttcttattga ctctttttaa gttagagcacc 660
cctgtgttta ggaaagctag agctattgtg atgcctttga gtttgcctgg ctgattgctg 720
ggacttgaac tactgagctt atctaaaagc ctgagaggcc ttgtagcctc tgtcttttag 780
agagtgtagg taaaggcttg ttttccctca aa 812

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<210> 91
<211> 1882
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (12)..(12)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (565)..(565)
<223> n equals a,t,g, or c

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<400> 91
ttcgccagcg anactggaag gaaagaaaaga aaggctcagct ttggcccaga tgtggttacc 60
ccttggtctc ctgtctttat gtctttctcc tcttctcatt ctgtcatctc cctcacttaa 120
gtctcaggcc tgtcagcagc tctgtgggac attgccatcc cctctggtag ccttcagagc 180
aaacaggaca acctatgtta tggatgtttc caccacaacc ggtagtggca ttggagcacc 240
taaccatctg tgcttctgtg atctctatga cagagccact tctccacctc tgaattgttc 300
cctgtcttga aatctggcat gagatggcac aggtgaccac caacctcagc acaacaggct 360
gcctgcctta tctctctccc caagtctgtt tgtgtggcta gtgggcagat taccatgcaa 480
ggccccaatg gcattacaga gaaagcaatc tgtgtggcta gtgggcagat taccatgcaa 480
gcccaggagg aatatggagga gcttcttagc caectccctg tcasccagta ttaacatgct 600
cccttcccc ttgcccgcgc taganttcag gacattcgcc cctgtgtgcc acccaaccag 540
ggactttccc cttssttgg gttaggcaccc ctgggctctc tctgtgtacc cagcaagacg 660
tctgttccag ggcagggcac gagctttcaa gctcgtttac tatggcgatg gccatgatgt 720
tacaatccca ctgctctgaa taatcaagtg ggaasgggaa gcaasgggaa atggggccat 780
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caagaaattg gagctggaga agatttgatg aagtgcaggt gtgtaaggaa atagaaacgt 960
ctgtctggag tcagacctgt aattctgatt ccaaaactct tattactttg ggaagtcat 1020
cagcctcccc gttagccatc ccagggtgac ggaacccagt gtattacact ctggaaaccaa 1080
ggaactaac aatgtagggt actagtgaat accccaatgg ttttccaat ttgccccatg 1140
ccaccaaaac aataaaaaca aattctctaa cactgcgaag agtgagccat gccctgttaac 1200
actgtaaaga atgtaacatg ttggggagac acagggggcag atggggatgt ttagttttag 1260
attttattag tgcattgccct accctctggg cgaacgtccc ctctgaggtt ttcttctcgg 1320
tggggggatt taacttctgt cttaggggaa acagtgctct atgaggaggt ttccaacac 1380
aggctacatg aattccccca taccagtcgc aaagcagcca ggagctcccc ttggaaaaga 1440
acaatgccac tctcttttat gtatcttggt tctgcaactc attgtttgta agtaggggta 1500
actagatc acaggtcacag tatcctgcgc ttattatttt atgattcact gactcaagtt 1560
ccaagaaatc cttagaaatg gacctcttca ttgataaata ttgcagaata ataaatgtga 1620
gggaataaga aaggcaagct ttggacacag atatgatagg tctgatcagc tcggaagaga 1680
agaatgatgt gcagagtgtt aggaagacat ccgggctgct gagactcggg attagaagaa 1740

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agagaggttaa	ataaagtggg	tcctggaatc	ttttaggact	tctgctgtag	gacaaacagc	1800
tgcccttggg	gttttaagt	ctcccaaagt	acccttcagc	caataaatac	catctgttgg	1860
tgcaaaaaaa	aaaaaaaaaa	aa				1882

<210> 92
 <211> 1391
 <212> DNA
 <213> Homo sapiens

<400> 92						
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gctcctaaaa	tgacacatcac	atctctggta	ggctgctggaa	ccctcatggt	actgctgctt	120
ttaattttgc	tttttgaatg	ttctcttgta	gctgaagctt	tagtgatgag	aagttagaaa	180
tactctctat	gaccttttag	gttttgcct	gttgatatat	atcaagttcg	cttagtttga	240
cattgtttga	acttatttcc	ctaagcaaaa	aacagccaga	aagaagaaaa	tccagaacat	300
gtagaaattc	agaagatgat	ggattccctc	ttcttaaaat	tggtgcccct	ctcaaacctt	360
cactttatcc	ctaaaccgcc	tgtaccagag	attaaagtgt	tgctaaatct	gccagccata	420
accatggagg	aagttagcccc	agtgagtgtt	agtgatgcag	ctctcctggc	cccagaggag	480
atcaaggaga	aaaataaagc	tggaatata	aaaacagctg	ctgaaaaaac	agctacagac	540
aagaacaagg	agcgaaagaa	aaagaatat	caaaaagctg	tgaaaaataa	agagaaggag	600
aagcggagaa	aactgcttga	aaagagcagt	gtagatcaag	cagggaataa	cagcaaaaaa	660
gtagcttcgg	agaagttaaa	acagctgacc	aaaactggca	aagcttccct	cataaaggta	720
aggacaaagg	aaagaaactg	gctcaagggg	acccttctgg	gggaagtggg	tagcaagtgc	780
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ctgactggct	ggaatcgcaa	cctttaatgt	tctagaattt	ttcacgtagg	gtcctcacaa	900
taacctgggt	cctggcagca	ctgtgtcttc	cactcctttc	tctcttagat	tataagaaca	960
ttgtagcagt	gcagaatagc	tctatgctaa	ctgattccag	ttttctgtaa	ttctagtctt	1020
tttttcatat	ttatggtttc	atacatgttt	gtaatgggtg	tgtactattt	ttggcttttt	1080
tcacttataa	gtacattttc	cagcataaag	atgtgggtgt	tttaattgca	ggatgaagg	1140
aaagacaagg	ccttaaaagt	ctctcaagca	ttcttttcta	aattacaaga	tcaagtaaaa	1200
atgcaaatca	atgatgcmaa	gaaaacagaa	aagaaaagaa	ggatatttct		1260
gttcataaat	taaaagctga	atatattttg	aatataatgt	aaatatattt	gtgtaagctt	1320
atatgtgtgc	attgttctgt	tttataataa	aattcttgag	aaccttcaaa	aaaaaaaaaa	1380
aaaaaactcg	a					1391

<210> 93
 <211> 930
 <212> DNA
 <213> Homo sapiens

<400> 93						
gaattcggca	cgagetaagt	cctgatatcc	catgatgttt	ttgtttttac	ttgttttttg	60
gctatcttct	ttttctaaaa	atagccctct	ctgggggaatg	ctgagatctt	cattctttat	120
tgatatacaat	ttataattat	ctacatctgt	aagcagttat	tcgaaagtct	ccagatctta	180
ttctatctctg	gcacccatgg	tgactaaaaa	aatcaaaagc	gttaaatctt	tgaagcagc	240
cttcaaaacca	cataactcca	ccaacttaac	ttatatgtcg	gggagttatg	gagcaaatat	300
attaattaac	ttgacagaag	ttgcacactt	tctgtacttc	tgaaccaaaa	tttgatgcag	360
tggtttttct	tatcataggt	cacacctgat	taggatttcc	ttagcttttg	ttggggctag	420
acaggatgtg	gaccaaaggc	aagattttct	tgctatctct	tttgacagaa	tttccacaat	480
catggatttt	gtaatatgtc	tggaacttca	tcagaaagta	acctgtagtg	gggctgtcta	540
cataggattc	ttcctttgaa	aagccttaaa	ctatttttcta	atggttgttc	ttctttaact	600
aacaataaaa	aacagcaaca	atgcacctgg	gcacagtggt	ttttgctgtg	aatccccagca	660
ctttgggagg	cccaggcagg	tggaatcaact	gaggtcagga	gtttaagacc	agcctggcca	720
acatgtgaaa	ccctgtctct	acgaaaaata	caaaaaatag	ccggatgttg	tggtgtcacac	780
ccgtagtccc	acctactggg	gaggtctgag	caggagaatt	gcttaaaccc	aggaggcaga	840
gcttgcatgg	agctgaaatc	gtaccacagc	actccagcct	gggcaacaga	gtgagactcc	900
atatccaaaa	aaaaaaaaaa	aaaaaactga				930

<210> 94
 <211> 998
 <212> DNA

<213> Homo sapiens

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<400> 94
ggcacgagcg ttaagtoaaag ccacctgacg agtctgttaa ccaactggaga gatgagcagt 60
gttttagtcat gtccttaata ctgttattgt cagtcaccct ttatcatctg tctttttctg 120
ttggctctctt tcttttttagg ttgtagggga gaccatttgt ctagagagaa tatacgcttt 180
gacttgatga aatcccagtt taatctagaa aggtccattt tgaggttaa aacatttcgg 240
agatgtggag gtgaagatat aaagttagtc tcagctttgg ctggccaata tgggatccta 300
cttatctctc caggggactg gacaattctg tcaagactc tgtgtctcag gagcctctgc 360
tctctctctc ttcatggctc aactttctcg ccctctcttc atctcattag cttaaccctc 420
agttgctga cccaagtcaa ggtgtgtgac gctgtctga tcaccactgc tttttggggg 480
cttctgcaac tgtgtctctg cctggcaacc tctgtctgta atctgtttat ccccaaat 540
gaatgagtaa taggaattgc ctaaattttg gataaattat cctacaaaaa aaaagcattc 600
tcacattgcc ctctcaaatc acatgatctt ttagaaaaat ggccgggtccc tatgaagcta 660
attgatcttt ggcacataa gggaaattca gctgggcgca gtggtctcac cctgtaatcc 720
cagcactttg ggagggcgag gtgggggggt catttgaggt caagcattca agaccagcct 780
ggccaaacgt gtgaiaacccc gctcttacta aaaaacaaaa aaaattagct gggcgtggtg 840
gtgtgtgcct tgaatccag ctactcagga ggctgaggca ggagaattgc ttgaaccagg 900
gagatggagc ttgcagttag ccgggattgc gccactgacac tacagccagg atgacagagt 960
gaggctccat ctcaaaaaaa aaaaaaaaaa aaaaaaaa 998

```

<210> 95

<211> 830

<212> DNA

<213> Homo sapiens

```

<400> 95
ggtcgaccca cgcgctccgct gaaaggaaaa gcaactgttg gagaatgac caccctttcaa 60
gattttactt atgttgtata atgtctccac atgtctctct ttttacgggt gatcttcatt 120
cctaataatca aagtgatatt tcttctctca ggcaccacct ctttgatcca cacaatggat 180
caaggagttta tagcagcttt taagtctcac tacttgagaa ggggaggactt ttgcccagtc 240
cctactgtgca gtggaggagac acactgagaa gactctgatg aaattctgaa cagcatcaag 300
aaccttgttt agcgttggtt tatgtcgcta aggaactgtg gaatggcacc tggagaaga 360
cacgcaagagc ttgtgtcaat aayttcaaa gatttgccaa ggatgagaa gttgcaaaaa 420
tcaagaargc tgtgtctgag atggcaaaac actttaacct ggtgtgtgat gtggatgaca 480
ttgagtaatt cctagagggg gttcctgagg aattgactaa tgggtgtctg ttggaactcg 540
aataggagtg catagctgaa gaagaggtaa agaaaaagaa agtcagagg aagggaaaaa 600
agaactccca agaatactca cagtgtatgg ttttagcaga gcttcttcag atctcaacaa 660
gctctcttaag aagtctgaaa acatggacc caaaactgaa aggttttcac taatagagag 720
gaaagttcat ggtgcattat ctgcctacaa gcaaaaccag gattcaaaaa acccttttag 780
ctggagcttc aaagcaca aa aaaaaaaaaa aaaaaaaaaa aagggcgggc 830

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<210> 96

<211> 867

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (457)..(457)

<223> n equals a,t,g, or c

```

<400> 96
ggccgccttt tttttttttt tttttttttt ttttttattg gttaaagtcg tgatgccaga 60
tgaccctctga gatcccttat tagtgaaatg ttctgataat aaagaagagt ttggctcacc 120
tgctggcttc caccacacag gtttataaac aagagcccta cagctctgtg cccaccctga 180
gggctgact gacctgtgga gggcccccac ttctgctccc atctactcac cctgttccc 240
aagaaccact gactctctta catgaagcct acttttagta agtttttagg tacagatgct 300
gaattaccac agctgtatcc accctcactc cagggaacccc gaggagagac tcaactgctt 360
ggccacagggt tagagagacc cacacgggaa ggcagagtgg agcagatggt attaaccac 420
aagctctgat cctggggctc ccagctacca cagtcangaa acacattttt aaaaaatcma 480

```

```

gacccttgaa ctgacgacg tagtcaccca taccgtatag gataaataaa agtaagccaa 540
tgtttatctc tctttgcata aaatcaccta taccaacact tatacattac agcatcatc 600
agtttaattca agtctgaatc ccagaaactc tcctgaaatc aagccacagt tcagccctat 660
tcttcctagt ttttcctgac atacttttgc ttactctata aatccacgga tattctctct 720
gctactctcc accaaaagccc aaatacacgt gaaaaaagtt aatcatgaag ttttctctat 780
tcccttacat ttgaaaaatc agcatctact ctcatagact acttgtaaga agacaaattt 840
ctgctactcc ggacgcgtgg gtogacc

```

```

<210> 97
<211> 545
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (7)..(7)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (16)..(16)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (41)..(42)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (87)..(87)
<223> n equals a,t,g, or c

```

```

<400> 97
tcacttncgg ttccngtcga tgtgggtgtgg attgtgagcg nntacaattt cacacaggaa 60
acagctatga ccatgattac gccaaagncga aattaaccct cactaaaggg aacaaaagct 120
ggagctccac cgcggtggcg gccgctctag aactagtggg tcccccgggc tgcaggaaatt 180
cggcacgaga ttgcgtgcct aattccacca tgaagtgtta ctatgcctgc ttatctctat 240
actcatctct ctctctctct tctctctctc tttctctctc cctctctctc ctattataat 300
ttatctctct tattttttga ggcatttccag aatataatc acttgctcta aatacttcag 360
tatgaacatc attaaactaga atttattctt tgttttaact ctgatgtgaa aytatatata 420
atacaacatg ctatgaattt gttttccmaa aaaccaatca acaatttawt aagcatggka 480
acaaaaaacc tgaaggcttt atcttttaga gtagtagttt ttaaaaaaaa aaaaaaaaac 540
tcgta

```

```

<210> 98
<211> 722
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (251)..(251)
<223> n equals a,t,g, or c

```

```

<400> 98
gaattcggca cgaggaaagt ttcaaccctc tgacatgtgg gttcagotta tttttttctt 60
gtttcagtat ggagactctc ttactctctc tttttttctt ttctctctca atttttcgct 120
tcagaattct ggtttctcaa tgcataaact gaagtaattt cttccattct acttttctct 180
gccccaggct tgagatagaa ctaggggagcc cagtgaaggcc tttttttctt taaattaaca 240
ggcatctgtg ncataaatgc tacctttgaa ctatgtgatt taagataatg tgcagaagta 300

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09973278.101001


```

cttctctggt ctttcaggtt gcytgcataa ctawgtactt ggttgaacct gtaattcttg 360
ctgcaacacg tctgtctgtt ttccagtaag gtctgtgagc ctggggccaa ttttgatcag 420
tccctacgtg tactgaaaca tgccaagaag gttcagcctg atgttatttc taaaacatct 480
ataatgttgg gtttaggcga gaatgatgag caagtatatg caacaatgaa aggtaaagaa 540
attgaaaaat gaaaaatctt tcccatgtaa tttgagtaat agccaggaa cccactcact 600
tgaaggccct tctaagaaca aagaaaagta tatggttata gatggcagca tgaaaaggaa 660
accaacttgc acatgcaccc tcaaatctaa aatacaagtt aaaaaaaaa aaaaaaactc 720
ga

```

<210> 99

<211> 753

<212> DNA

<213> Homo sapiens

<400> 99

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ggcagcaggt gatgacttca ctcccaattc tggcatttgg ggctgtctat tggccagacc 60
ttgcttcaca tagtttctca cctccaagga gtctagccca gactccccat atgtcagttc 120
cagggtagca tttcaagagg gataaggtag acgtttcttg cctgttctgg tgtaggctgt 180
gaattaccat aacatcactt ctttgagatt ttcttggtca aggcaaatca catgacagg 240
actcaagagg gttagagaaat aggttctact atttagtggg aaggacagca aagtgcacatc 300
acaaaggagg atgcatatag agatgggggg aatatgtgac caactttagt aatcactgta 360
attctgaatt gactcacaaa cactatcaag acggatcatt gtcataacct agttcaaaaa 420
gcagtccttg cagcaataca gaacagatag aagtgaaag aatgtgattt tgctaaaaat 480
gacatattta catgaccagt gatgggtgag acctatgaaa aatccccaga gattctcaag 540
aactcataaa gtgcatttcc atatttatgt agaatacaa tctcctgctg tctttgactt 600
cacctagtag attcctaggt atgtgtatct aagcccaagt tggctctcac tttttgccta 660
cttccgagtc aatatgtgac atgccatccc acctttttgt gttaccacat tattataaca 720
taagggttgg ttatgtttcc tggatatctt gag

```

<210> 100

<211> 696

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (605)..(605)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (648)..(648)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (655)..(655)

<223> n equals a,t,g, or c

<400> 100

```

ggaaaaattt taaaaaatag attataatga tacatatatg tatcattaag acaacagatt 60
tgagcaataa caattaagggt gtcttatttt ttgcatcaag taattattgc tgtggtcttt 120
ctactccaca aaataatttt ttctttttgc agttgaaaaa taactgcatt attaatcaat 180
taataaaaata aatcaagtgg tataagggat tagtttacc cagaccccca gactccatgg 240
ctactgatat tagtttagtt wggattttta aaaagcatat cagaccccca gtttcaggaa 300
ttgagtataa atattgcttc ttgtcacccct gggacagtaa tgccttatag tggcactagt 360
caccttaagt agattacaca tgggttaggt gaataaagct gcatgggaat ttgctttcgt 420
gatataattc atttgcacac ttctacataa tcaaggttta tggttaaaaa catcggttct 480
atatattcat ctttaggaag ttgccccttac aggtggggacc tttttggtta atctgttttc 540
tccccagtc tcttattggc tatgttaaaa aaaaaaaa aaaaaaggaa ggccgcctta 600
kaggnccaa gcttacgtac gcggtcatgc gacgtcatag ctcttctnta aggnnccact 660

```

aaattcaatt cactggggcg ccgtttacaa cgtcgg

696

<210> 101
 <211> 455
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (431)..(432)
 <223> n equals a,t,g, or c

<400> 101
 gtgctcaggg agctgaatac acggctgcgg gatgacaggg acgctgcct gggcccacct 60
 gctgctgctg ctgttgcctgg gctcggcccc ccagacgcgg ctctggccac ctccccagtg 120
 cccggtgacc agccccgagt gactcacgga ccatgagcta gaagctgccc ttgcaggagg 180
 ctgtgcatgg gtcgggggrrt cccactcagg atgcaggctc tccccagggg gccccaggct 240
 cgccctgactg aagacatgaa ggacctagcc taggagtggt caggggtccc ggagtgggca 300
 ggggtcccggt tgtkccctct gccagttctc gctctgtccc cgttcaatca accccatctc 360
 agttcagcag aaaacccct cgtaaaataa aaccactga ctgcaaaaaa aaaaaaaaaa 420
 aaaaaaactc nngggggggc cgggtaccga attttg 455

<210> 102
 <211> 389
 <212> DNA
 <213> Homo sapiens

<400> 102
 ggtcgaccga cgctcccggt ttgccatata atgagcattt tgtatcata aatttatagt 60
 ttaattaaat taggacattt gtaaaaaatt ggatacaatt ttattttcaa ataccctttt 120
 ttatgatcac tcaaacactt attgaattga aattatgcac atgttttgatt tagtgatagt 180
 gtattacaaa acaccaatcc cctgttaatt gtttctgcct ttcttcttcc catgctgttt 240
 ttcaaatattt ctattgctat atttctagtc actaatctgt cttttgaaa gctcattctg 300
 ttgttagggc catccagtgga tttgtttttt aattttaagt aatttatctc tataagttct 360
 agatcgcgag cggccgctct agagggatc 389

<210> 103
 <211> 960
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (460)..(460)
 <223> n equals a,t,g, or c

<400> 103
 ttttctctag tacatatatg taaatatatt aatgttgttt ttgtgtttgt gatgtagtaa 60
 ggagatgtac atagaaattc attgaggtat atagatactc atctgtctag gcagttccca 120
 attttctgaa gaattgttta cagcaaaatt ttctattttc tttttataaa tagtgacacg 180
 tcaaaccaatg tcacatccaa aacactagtt toatcaattt ctacgagtaa taatagactg 240
 gctgtaagta ttgtttttct atgcccatacc ctgtcatcac atattattaa atgaccaata 300
 ttatgtatga agtagacaaa aaaattttact caaacctcat tcaaatccca attgtgataa 360
 tttttgtttt atatttaatt ataaacccaa atacatttgc atttttaagc taatttgtct 420
 caaaaatttg ctttatatatt ttggatcagg ttaaaagtcn gtggatcccc tgaatgttat 480
 tgcctccttt gatgggtttt acttctgagc tatacgtcaa aagacacata agcttcaaaa 540
 gtcmagacaa acctcattgc cataaaaaatc aagatataga tgttctgttc cgtaaaactcc 600
 ttgaaaaaaa tttttaaagtc atcaaatatga tctgtttccc atgaaactta agttagcttt 660
 ctctattggag twatttcttt tctgttaagc tgaaaaagtag agatttttgt ttacgcattt 720
 tagtaacctg caacaaccaa ctctaaaaaa gatttggctt gtaatgacgg tctctgtctt 780
 ttggggtttg gattacacaa ttgttaattt tacttagtta ttgtgttttt tctttgttca 840

09973278-1014001

aggtattgac tagtttcata aattttttgm aagtttttct ttcattgggt ggaaagcaga 900
ttacattttg cactattaaa ataagtttat tacttttaaa aaaaaaaana aaaaactcga 960

<210> 104
<211> 1442
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1377)..(1377)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1419)..(1419)
<223> n equals a,t,g, or c

<400> 104
cttctatatt agatggacag atttatatac ttttccatgg aggattaagt aaactgaaac 60
ctaagacaca cgaagaatct ctaagtggaa aggccactta ttagttagtt tacagcagta 120
tcgtaaagtga caggatgata ggagtggtgg aagtgatcag gataataatc tcttagttaa 180
gagaaacaat ttgaatttta gaaggaaatt gccttaccat ttgcaaatga aggttaattaa 240
aatacagtgga atttcaaaat gcctttttta tgacaatgtg tgaactttaa ttgttttaatt 300
aaaccaaatt trttgttatt gtgttaaggc tattttacat tgaattgtga tcttgccact 360
gatgttaact tatcccatct tacccaaggt tgtaggtaac aatatactat tgggtgacag 420
tggactaaca tctctagtga tcccttggc agtggctctt aacttaaaat aatttagaga 480
atatggtttc tacaacttac atttttggtt wcttgtaact acagattatt atgatggttg 540
taatgaagat tatgagtata attggagcta tatgtttctg aattctgac aactatttat 600
aaaaattttt cctacttttt tctgttgaa atatgacttc tctggctgac taacacata 660
cagacottta gtgtttggtt acatggattt aaatatatag atatatcact gtaaaaataa 720
cttcagggtg aacagatttta tagagaaggt aatcatattt gtttatggtt gtgtaccctac 780
tttgagaaga aaagaaaaat attagaatga acagataatt ttacaagtgt tgatcactta 840
ccagcaaac ccgaacttca gagattttga aagcaaatct attttctctg ctgtgtatta 900
aattcattta tctaaaaagt tattgctcct ggcttagaat catcttggc aaactctctt 960
tttttctgtt ttgtctgttt gcctgtgtct caccatagac ataattttct ttccataaaa 1020
cattctttgt ataatacact cagagattat gaaagtgact ttgataaaaat ttaattgggtg 1080
tcacaaaata attttcacgt gactaatctt acagtgcgtg tattgtatgt tatttagtgt 1140
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tcattttact ttataaaatg gacataatg agttttatga attttatgtt ccaattttaa 1260
taaacagttg aacgtttcat aagtcattgag gtcttttttg gcatacatat gaagtataaa 1320
aagcaaatc taggtgagcc aataggragg ctacctaat taggaggtta atattccttt 1380
tgaaatttg gcccggtggc ctcgggtgga aatggggna ataccctag gtaaaaaaat 1440
gg 1442

<210> 105
<211> 598
<212> DNA
<213> Homo sapiens

<400> 105
gaattcggca cgagctggct gcaaggtctg ttggggggagg gtccctactt gacccttact 60
ggggtcagtg tgggtcaagg gtttaagtgc accctcggcc cttgggagcc tcaatgtctga 120
gggtctcagc gcttaccact ggtcctggcg tcacggactg tggagctggg ggcagcccg 180
gggtgggtttt atagcaagtg gtgagatgtg ggcgtgtgct tccaaaccag acccggttaa 240
gtgccacatg gtcaacagtt tagtgtcgag aaatgaattt cctctcttta attttccctt 300
atttttccag cctgttgggg gaggtggagg ttgtgaaatg tttagcagta ccagttcatc 360
ctgatctgct tgggaacctc cagtttttagc actgaaagcc ccacagccca agaatecctt 420
ggatataaac caggtttctt ccttccagaa tgtcccaaga gccttagggc ctggagacac 480
acaggtgggg gccctgagcc cgtgcccctt cctccagatg gacgagcagc gggccccagg 540
ccccagggt caggtgtctt tgggtgccac agtgtgtctg gggccaggc ttgtctctt 598

```
<220>
<221> misc_feature
<222> (7)..(7)
<223> n equals a,t,g, or c
```

400> 106								
ggcgccnttt	gggggccccc	cctttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60	
tttttttttt	ttttggacag	aagtgaattt	tattggtgat	tattaaagag	ggggcagcac		120	
atttgaagac	ctcatgaggt	caggagccgc	cactgtgtca	gattggccac	actgggggat		180	
taacttgacc	caacagccatc	tggggatgagc	cgcttttcaa	ccaccatgtc	ttcaaaattca		240	
tcagactgat	acttggtgaa	gccccacttc	tttgagatgt	ggattctctg	cgccgcaggaa		300	
aacttgaact	tgccctctgc	cagggcctca	atcacatgct	ctctgtctcg	cagcttggtg		360	
cggatgacac	tgataaactg	gccaaatgtg	accttggcca	cagtgcctcg	gggctttcca		420	
aggaagccca	gcatacctgt	tttgaagctg	taacgccacc	cacaggagaa	catcttgttg		480	
atcgcgatga	cgctgaaagg	gtggagccgc	accgggatat	ggaagccatc	tttggccaca		540	
ctttttacca	tgtacttatt	gtgcacaaat	cgggcagcct	ccagggttcc	agagagacag		600	
tgtctcatat	catctgacac	ctgtgtggcca	caaaagcgaa	actcatccac	ttttgccttt		660	
ttcccccaca	ggttvaaaat	cqga					680	

```
<220>
<221> misc_feature
<222> (12)..(12)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc_feature
<222> (501)..(501)
<223> n equals a,t,g, or c
```

<400> 107								
gctccaccgc	gntggcggcc	cctctagaac	tagtggtatcc	cccgggtgtgc	caggaattctg		60	
gcacgagttc	atctattgaa	gggttgttga	gctttttcatc	tttttgcgtct	ttgtaaagtga		120	
tatatgtttg	ctatgggtgc	ctactcaaat	gtttctgcac	gttcgagcttc	ctagttgttgg		180	
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<222> (837)..(837)
<223> n equals a,t,g, or c
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<400> 108
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<210> 109
 <211> 685
 <212> DNA
 <213> Homo sapiens

<400> 109
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<210> 110
 <211> 1146
 <212> DNA
 <213> Homo sapiens

<400> 110
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<210> 111
<211> 1333
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (485)..(486)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (493)..(493)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (496)..(496)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (587)..(587)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (633)..(633)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1330)..(1330)
<223> n equals a,t,g, or c

<400> 111
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ctatgttaca agtttttgcca tttgtgccag tggacaaccc cggggtaatc agttgaagg 180
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tagagacggc aggaaggag agaaagtgta aaagggaaat cgaagtttga gaggttaagac 360
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caatgttcat	aaatatttaa	gcaaatataa	gacaatgtta	acaaattttc	tattaaatgc	1260
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<210> 112

<211> 1140

<212> DNA

<213> Homo sapiens

<400> 112

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<210> 113

<211> 1575

<212> DNA

<213> Homo sapiens

<400> 113

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<210> 114

<211> 334

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (321)..(321)

<223> n equals a,t,g, or c

<400> 114

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tacagggtatt	aaatatata	tttatatgcc	agtcacattt	ctccacata	aataaggcag	240
cagacacata	tatttaatat	catgggtatg	catttttagt	tctaaaacct	aaggtagtg	300
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<210> 115

<211> 866

<212> DNA

<213> Homo sapiens

<400> 115

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tccaaaccac	aaaggacttt	gaatacaaaa	ctttttaagaa	atcttgtatg	aatacaagct	180
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<210> 116

<211> 462

<212> DNA

<213> Homo sapiens

<400> 116

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gcctcaatta	cctcttcttt	tattttcttt	cctttgttga	ctctcatact	ctgttctcct	180
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<210> 117

<211> 1500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (71)..(71)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (73)..(73)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (755)..(755)
 <223> n equals a,t,g, or c

<400> 117
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<210> 118
 <211> 360
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (340)..(340)
 <223> n equals a,t,g, or c

<400> 118
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<210> 119

<211> 823

<212> DNA

<213> Homo sapiens

<400> 119

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ttgagacctt	tcctctcctg	ggtactgagg	tgctatgaag	ccaactgaca	aagatgcatc	720
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<210> 120

<211> 456

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (456)..(456)

<223> n equals a,t,g, or c

<400> 120

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accagccagc	agcacagccc	ggaatcctgc	tcttgacctg	caccatcccc	accagccac	120
gatagaacgt	ttttgtaggc	attcctctctc	atgggagagg	atagagtaca	tgcgagtttt	180
tgctctctctc	ccaccctctc	acaagagcac	tgctgctttc	tttctctctc	tttctctctc	240
tttttttttt	tttaggcagg	gtctgtgtgt	gtcaaccagg	ctggaatgca	ggtgtgcaat	300
catagctcac	tgacgctctg	acctcctgga	ctcaagcaat	cctcctgcct	taacctccca	360
gctaactcagg	agaccgagac	aggaggacca	cttgagccca	ggagggttgag	gctgcagtg	420
gccgagattg	caccactgca	mtccagcctg	gggaan			456

<210> 121

<211> 553

<212> DNA

<213> Homo sapiens

<400> 121

gaattcggca	cgagtcctta	aacagttaaa	atgtcacagc	tggtttcttat	aatgcttaca	60
ttcatatttc	taataaacat	gtttataatg	catctaactt	ccttccatgg	aaaaagagta	120
tttggtctttt	taaaccaatc	gagtcacatg	catgctttcc	cccttccacg	ttggactaca	180
tcaatattta	gtgttagtat	ttttataaat	agataaatat	tggttcgcaa	ttttatttgc	240
tgctatttgc	tggttaacaa	attcctccaa	aattattggc	tttaaacac	atttattatc	300
ccatagtttc	tatgagttga	gaatctaagc	aggcttagct	gggtccacta	gctcggggtc	360
tctcacaaag	ccacagatca	aggtgttggt	cagtggtttg	tgcccttagt	cccgactact	420
tgggggggtg	agggcaggag	atcacttgaa	ccaggtagt	caagggtgca	gtgagwakg	480
gttacaccac	tgcaactccar	cctgggtgac	agagcaagat	gccatctctt	aaaaaaaaaa	540
aaaaaaaaact	cga					553

<210> 122
 <211> 1158
 <212> DNA
 <213> Homo sapiens

<400> 122
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 caatagggtc gaatgaattt accaaaggaa gctgccttat attatatgcc aggtctgttg 180
 ggaagagcct aggtcctggc cagccctgtg tctcacaaaga acatgcaggt taccacataa 240
 ataattggcat atgccttcca taggacgtca acctgacctt aatctacctt taccctactc 300
 tctattcttt ggttttttgg tctcatccct gtggaaggaa atgggcctct tctggcatct 360
 catgctactc tgtgcttttc cttgggctcc aaattcttagc tcataaagat gcaagttttg 420
 caatttccca taaattggtta agaaaagagc aagctgtcca gagagtgaga agtttgaana 480
 gagagggtgca taagagagaa atgatgtcca tttagagccc accacggagg ttatgtggtc 540
 ccaaaaggaa tgatggccaa gcaatttaatt tttcctccta gttcttagct tgcttctgca 600
 ttgattgggt ttacacaact ggcatttagt ctgcattaca caaatagaca ctaatttatt 660
 tggaaacaag agcaaaaatga gaactttatt tgggtgcagc agggctccat ttagtctcct 720
 cactctgctt ctaatcaccc ctctctccag cctctctcta ttgtatagag gtcgttccct 780
 cagatcagca atgtcttagc cctctctctc tottccattc cttcctgttg gtactcattt 840
 ctcttaactt taataaaaca tttaggtata atacattaca gtaagtgtca tttagataca 900
 aacttaaaac atactatata ttttaaggat ctaagaatcc tttagagaag gcacatgact 960
 gaagtaccta agctgcgcag cctgtagcca gtttttttaa tgtaaaagta agaagtgccag 1020
 ccttaactca gccctgcgca taaaagctaa cttttattaa taccagccct gaataatggc 1080
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 aaaaaaaaa aaaaaaaaa 1158

<210> 123
 <211> 554
 <212> DNA
 <213> Homo sapiens

<400> 123
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 acggagtttt gccacattgg ccaggctggg ctcaaacctc tgacctcaag tgatccaccc 180
 accttgccct cccaagggtc tgggattaca ggcgatgacc actgtgcctg gctccattta 240
 caactatttc tatcattata atgcaggggc tctcaaacct gagcatgcc cagaatcccc 300
 cagagggctg tgcgcacaga ctgctggacc tttcccagct tcttgatcc gtccctccag 360
 agtggggctc gaagattgcc tttaggtgta rgctgcgggt cggggggcag tctgagaact 420
 gctgcagagg tgartgctgt ggctctgtct gcattcccc tggaaagact argcacagg 480
 tgtgctgggt ctaacagacc acaagtccct cctggacact gccctctctc gaaggaggag 540
 gcctctccac tga 554

<210> 124
 <211> 1255
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (541)..(542)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1156)..(1156)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature

00073273.101001

<222> (1162)..(1162)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1223)..(1223)
 <223> n equals a,t,g, or c

<400> 124
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 aaatgatctg agatttttaga tctacattat tggtactttt taacattatg tatcttctgt 180
 ttcaagaagg cttttgatgt ttgagttaag ttccataaagc ttttaaccaa gcatttagac 240
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 cattatttca actcatttca cagttgtctt tggtagtctt ttttagtactt ttttaaggaa 360
 cagatgggtg atacagtatt atagtgtctt gccttctctga agatacttgt gttcaataga 420
 gcgtaacatt tttttccacc agtgactttt ccctcagaat actaaagtca cagaaagtta 480
 tcacatcaac ttaatgttgc ccaagagaag tccaaactct ttgctgtctt ttgtaggtt 540
 nntttggggtt atctccccc aatgatgttt atagattctt tattctttct tcttgggaaca 600
 aagaaatttc attgggatat gtttttaaaa atagatctct ttttattatt ttgcatgggt 660
 actagatgag acatttttagt gcatagatgc aagtcttttt tcaactctgg gaattttact 720
 tctatggaat ttttttttct ttccctaata ttttttcaact ctttttctta tcttttagaa 780
 atttttatgt tgatccctca gatctgctct ctgttctgac tagtttttgc tcattatact 840
 tttttatct ttcccttag aatcagttact tcttgaaata aactgcttct atgattctga 900
 ggtatagcca aattggggaa gccctcttgt gaagggtcag cagtgtttac ctggaagaag 960
 aaccatttc agttgtgctt cttgtgtgtt ggtgctctga tccaactcag gcagagaaat 1020
 catattaaat acatttagag tactcccttt aaaagratta cctctcttgg aaattcaatg 1080
 aattttacatt gagratattt gacaaatttg tatatacat tgcaggcaat aattttttatg 1140
 agctgatctg ccatgnttaa angttttctt ttgtaaacca ttgggtgtgg gtatttttta 1200
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<210> 125
 <211> 1977
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (664)..(664)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (716)..(716)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1319)..(1319)
 <223> n equals a,t,g, or c

<400> 125
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 caggtctctg ccttgatctg gttctcctgc atctatgggt agggctacag caatgccac 180
 gagtctaaagc agatgtactg cgtgttcaac cgcaacgagg atgcctgcgc ctatggcagt 240
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 cccagatca gcaacgccac tgacgcgaag tacctgggtc ttggtgacct gctcttctca 360
 ggtatctgcc tgtggcacct ccatttgatc ttgggggagg cattaaactt aggggtccgc 420
 agctggggag gctcggcctt ggcagggagc agctcacac ccacgggcat 480
 ttttaggaaa ggggttttcag ctagtgtttt tccgtgcttg aatggcacca gccctgcctg 540

gggtagctag	aagctgagtg	gacctgcagc	acacccgagc	agatggggctt	tgcctctgcc	600
ccttttgttc	cctaggctgt	ctgctgtggc	ccacctgcgc	aaggcccgag	tgtgggggac	660
tttnagaggt	ctgccccggc	cggtctccaa	gtctctccct	ccatagtggt	gaagctcccc	720
ccgggaggtc	cetgccccac	ctgcccggct	ccccctccag	agtccctggaa	agccccctcc	780
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gctactgaca	agtgccctcag	cttccccccg	gcccggtgtca	ggccgtggga	gccgtattta	1500
tctgtgttct	ctgccaaaga	ctcgtggggg	ccatcacacc	tgccctgtgc	agcgagccg	1560
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gggtgcceca	gggtctccag	actctgtctg	tgccagatgt	attataaaa	cgtggggggag	1860
atgccccggc	tgggatgctg	tttggagagc	gaataaagt	tttctcattc	aaaaaaaaaa	1920
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaagggcggc	cgctcgcgat	ctagaac	1977

<210> 126

<211> 738

<212> DNA

<213> Homo sapiens

<400> 126

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ctcttcacac	tggccttact	caaaatgcag	atccaggagc	tcaggctatc	tcactgcctt	180
cttactttaca	attcttatac	cagaacaccc	ttctctccc	ctcactgtca	attcttacctg	240
gtttttgaaa	tttaagtcag	ggccttctta	ggaagatttc	cctgattcag	atccaagttg	300
aattatgata	accctctctt	ggctcccata	aaatcttata	acttcctaac	tgtgttttat	360
gaatagttgt	ctagtttagc	actatgtcac	gagctattga	cagcagggct	gggcacagtg	420
actcacagct	gtaattcctag	ccctttgaga	gcaacaagtg	ggaggactgt	ttgaggacac	480
ctcaagccca	tcacagctag	gcaacagaat	gagatcttgt	ctgtacaaaa	aaacaaaaaa	540
ttaattgggc	gtgggtgacgt	gcacctgtag	tcaccaactac	ttgagaggct	gagggcagag	600
gattctgtga	ccccaggaga	tcgaggctgc	agtgatccat	gatgggtctc	ctgcactcca	660
gtctgagcaa	cagagcaaga	ccccaccccc	caaaaaagct	attgagggta	gcagtttact	720
ttcattgtct	tacctcga					738

<210> 127

<211> 988

<212> DNA

<213> Homo sapiens

<400> 127

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gacacaaat	ccacctgtgc	agaattatt	gctcaggggc	tcataaagca	caacgcagaa	180
agccgaattc	agaaacatcca	ctttggggag	agactgaatg	cctcagcaga	agtgcccaca	240
gggctggttg	gctggctaat	cagcggcagc	aaacaccagc	agcagcaaga	gagcagcatc	300
aacatcacca	acattcagct	ggactgttgt	gggatccaga	tatcattcca	taaggagtg	360
ttctcggcaa	atatctcact	tgaatttgac	cttgaattga	gaccgtcctt	cgataacaac	420
atcataaaga	tgtgtgcaca	tatgagcatc	gttgtggagt	tctggttgga	gaagacagag	480
tttggccgga	gggatctggg	gataggcaaa	tgcagatgca	agcccagcag	tgtctactgt	540
gccatcctca	ctgagggtcat	cccacaaaag	atgaatcagt	ttctctacaa	cctcaaaagag	600

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aatctgcaaa aagtctctccc acacatggta gaaagtcagc cctcggcctg atcctctctct 660
ctgtgctgat ggtccaggta tgtcctctga tcggtgaaat cctcgggcag ctggatgtga 720
aactgttgaa aagcctcata gaacaggagg ctgctcatga accaaccacac catgaaacca 780
gccaaacctc tgcatgccag gctggagagt cccccagctg acttctgctg atcagaagga 840
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<210> 128
<211> 912
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (906)..(906)
<223> n equals a,t,g, or c

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<400> 128
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gcctttttctg gacatttcac gtaagtcgat cacacagtat gtgttccctt gtgactgggtc 180
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tctccagctg gtggacattt agggcgtttg cactggcggt tactgtgaat catgtcgctg 360
tgaaactgtg gtgtgtgtct gcgtggactt gtgtgtcctg ttctctggga aggagttgcg 420
ggttagargg tagttttttt ttccccctgg agactctctg gtttccacat atggtagttt 480
tatgcttaac cttttgagaa attgccaaat ggttttctga agtggccagc tcattttgct 540
ccctccagcc gtttgtaatg tccccatttc tctatgtgtt aattttaata caaagcagta 600
aaaagtgtccc attatggacc tagtaaaattc tgaggttaaca taagagagaa ataatgatgc 660
agcgcgtcatt actgtgctgg taatgtaagt ttcccttttt ttgtttttta aatggagctt 720
tgacagagat aagtcgagag aagaacactg ggccagcctg actccaaagc ctactctctt 780
aagcgccttg ctactctgtg atgtttttaa atctagcatt attttcaaat gctgtgagag 840
cactgaagat aaaggatttg attctttttt tcaggcatcc aaggatggtt catcatcaag 900
aatcanttta at

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```

<210> 129
<211> 569
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

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```

<400> 129
ntaagggtgt gattctggat cacgggatac cattctctgc macacccega ccagggggcta 60
gaaaatttgt ttgagatttt tataatcatc tgtcacaattg cttcagttgt aaatgtgaaa 120
aatggggtctg ggaaaggagg tgggtgccctt aattgtttta cttgttaact ttgtcttctg 180
cccttggtgca cttggccttt gtctgccttc agtgtcttcc ctttgacatg ggaaggaggt 240
ttgtggccaaa atccccatct tcttgcaact caacgtctgt ggtctcagggc ttgggtggga 300
gagggaggcc ttacacctat atctgtgttg ttatccaggg ctccagactt cctcctctgc 360
ctgcccactg gcacctcttc ccccttatct atctccttct cggctcccca gccagctctt 420
ggcttcttgt cccctcctgg ggtcatccct ccactctgac tctgactatg gcagcagaac 480
accaggcctg gccacgtgga ttctatgggt atcattaaaa aagaaaaatc gcaaccaaaa 540
aaaaaaaaa aaaaaaaaaa aaactcga

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<210> 130
<211> 646
<212> DNA

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<213> Homo sapiens

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<400> 130
tcgacccacg cgtccgataa ctttttcaag caatatcagt gagggtgccc catcgacagg 60
gtttccaggac ctggaaacact ttaacagaag gaaatgccga agcagcttgc acagttgtgtt 120
tacagacttc caagaggctg attctggcct caagatggag ccttgaggatt ggtttttttt 180
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gtgttcctat aaaggccctt ttctttctta gtgtgttaag ttacattttc attatgcccc 360
atcacatctt ctttactgtg aaaatattaa aaagctgttt ccaagtgagg cagctaatga 420
agctctaatt attgcagaca tattttttgag atgtaaaaaa aaaaatttaa agttaaata 480
taagtcttag agggcagatg ggaataaaat ggatgtaaac atttaccatg gatgcattag 540
aattctgtct gtgttactgt cttttggttg aaacaaatta tgaacagtga ctaataataa 600
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<210> 131

<211> 1183

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (266)..(266)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (426)..(426)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1170)..(1170)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1178)..(1178)

<223> n equals a,t,g, or c

<400> 131

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cacgattttt ttccacatct gtytgtgaga cacagcgcaa tgctactgcc cttccagaaa 120
ctgtgctaaa aagagaaaagt ccaaaagact ctaaacaaaa acctcgacgc cgttgaggat 180
gtgtttcatt ctgtgggtct gttttgcaag cttgataaca gaatgtccgt gccattgtaa 240
attgtgtaga gatgtggggc gtggcncaac cgtctatat gwgtgtagca tggtagagaa 300
caaacgtctt acacaggctt cactagttag aaacctgttg gccatggagg tcagacatcc 360
atcttgtmcm tctataggca agaagtgttt ccagatcctt tggaaaaggtg ggcattggggc 420
aggtsnttgg agagtggcgt ttgagcagag cgaccctatt tccgtgtgaa ccataggcac 480
aacccaggaa gtttcccccac ttgtaggagt gtgggtattc cagagcaaga cgttggccac 540
accttccccc tcttgggttt ttccgaaaagt gacagtgttg gtcacccatg gaccattgaa 600
gcttagtaac cagcgccaaa aagtagattc atcaaaactag agaccctcgc tccccttctc 660
gccattctct ttctcaagtt gaccgtgggt ctgtttcttg aaggcatctg caactccaa 720
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ctcagaggaa ccttctccctc agcgtctttg gcatgtgttc tagggtgaga gttcccaatt 900
tggataggaa gggccaccata ttggttactg aatctctct ccttgttttc attacgtttc 960
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gggtaataata atcaaatgcca atgtaatgcc agcgggtgag gatggccgat ggraggtttt 1080
caaaagtatg gctagcattt tggaaacatt atggggcaac cagagggggg 1140
aacagggtta gggaccgttt cccaggaaan tcccaantt ttt 1183

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09973278.101001

<210> 132
 <211> 2119
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1424)..(1424)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1438)..(1438)
 <223> n equals a,t,g, or c

<400> 132
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 gggagggcgc tggcccgccg gcaggctctc agaaccgcta ccggcgatgc tactgctgtg 120
 ggtgtcgggt gtccgagcct tggcgctggc ggtagctggc ccggagcag gggagcagag 180
 cgggagagca gccaaagcgc ccaatgtggt gctggtcgtg agcgactcct acgatggaaag 240
 gtttaacatt catccaggaa gtccaggtagt gaaacttcct ttatcaact ttatgaagac 300
 acgtgggact tcctttctga atgcctacac aaactctcca atttgtgccc catcacgcgc 360
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<210> 133
 <211> 694
 <212> DNA
 <213> Homo sapiens

<220>
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<222> (621)..(621)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
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 <223> n equals a,t,g, or c

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	attttggcgt	tatttttctt	aatcatgttt	ctgacaatca	tagtgtgtgg	aatgggtgct	240
	gctttaagyg	caataagagc	taactgacct	caagagccat	cagtatgtct	tcaagctgca	300
	tgoccagaaa	gctggattgg	ttttcaaaga	aagtgtttct	atttttctga	tgacccaag	360
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	agmttcagg	aactgktaag	aaaatagttc	tgggccagaat	caaaagattca	gcctacaag	480
	gatatgtttt	cctgtgaaat	tatctaaagag	aatttctctg	tgagatataa	aggcccatct	540
	gatcactgga	ttgggctgas	caragaacaa	ggccaacctat	ggaaatggat	aaatgggtact	600
	gaatggacaa	gacagtaagt	nctaaaaatc	tggcagtaat	atttgtattt	naatttactt	660
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<210> 134
 <211> 1032
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (5)..(5)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (593)..(593)
 <223> n equals a,t,g, or c

<400> 134	ggcanaggga	accaccttct	gtagaacatt	caaccaggcc	cagatccaga	aggccttgagg	60
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<210> 135
 <211> 537
 <212> DNA
 <213> Homo sapiens

0973273 1010004

<220>
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 <222> (429)..(429)
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<220>
 <221> misc_feature
 <222> (502)..(502)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (520)..(520)
 <223> n equals a,t,g, or c

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 acttatctcc acactatgct accaattcac ctgcagtggg catgtgcttt caggaggtttt 180
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 aagagctcta gggctataga accaactctc actaactgac acagatatca ggaatccaac 300
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 aaaagtaata ttctgtttct caacttcaac agagaataat agtgaaagaa tgggtgatatt 420
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 aaaaataactg agaaaaatgga gmgaggaggg aggggagagn gagagtgggc acagaag 537

<210> 136
 <211> 917
 <212> DNA
 <213> Homo sapiens

<400> 136
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<210> 137
 <211> 1384
 <212> DNA
 <213> Homo sapiens

<400> 137
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<210> 138

<211> 1720

<212> DNA

<213> Homo sapiens

<400> 138

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<210> 139

<211> 1566

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (415)..(415)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (718)..(718)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1116)..(1116)
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 <222> (1122)..(1122)
 <223> n equals a,t,g, or c

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 <221> misc_feature
 <222> (1127)..(1127)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1312)..(1312)
 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

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0973278.101001

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<210> 140
<211> 774
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (697)..(697)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
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<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<210> 141
<211> 1294
<212> DNA
<213> Homo sapiens

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gttaatatga gcagacaat gattaaaaatc tatattccta tcttctctag caccctgggt 840
tgggggatggg gcggaagggt gtcttgaggg gcaggaggga cccataaaaa caatccctcc 900
tgcatctctca ggctaaatag ggcccccagt gaetacctgt tcttggctgt cccctctgaa 960
gagctctgcc ttctccagc caccaccagt tgccccactc ccaggaaaaac agcacatgtt 1020
cttctctctcc tgccttgaga ctgctgttta gtcttccat cataactcat cagcagctca 1080
gtccttcttta tgtctagtct cagttcattc agcctaaagt catttttgtc ctatccaaag 1140
tagaaaagggt tcttttagaa aacttgaaga atgtgcctcc tcttagcatc tgtttctgac 1200
tcccagttat ttttaaaaat aatgatgaat aaaatgcctg ccttgaaggg ttctggaggga 1260
aaaaaaaaaa aaaaaaaaaa aaaaaaaact cgta 1294

```

```

<210> 142
<211> 680
<212> DNA
<213> Homo sapiens

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<400> 142
aattttttgt attttttagt agagacaggg tttccaccatg ttatgccagga tggctctgat 60
ctctgacct cgtgatccac ctgcttggg ctcccaaatg gctgggatta caggcgtag 120
cmaccacacac cggccaataca tattttttct tgttactaat tagaatcatg attctcctgg 180
cattcttcat ttgtttatca ctcaactctc tttccttagc aagatctttg catagagta 240
tggaaacacag ttcctctgcc agttaatctg tattgtgctt tgtcatgtat tgttactaaa 300
cagctcaaga tcaaggggaa gaaatgtata tgaggctcag ttcagtctca gttttttttt 360
tttcagcatt gcaacattgc cactcatcat catgagtcta gccctgtgtc aggtactgaa 420
ggtaattggaa aaggtatata aggttgatcc ctgtactctt ttggggaact tgagtgttat 480
gaatagagaa ggtgagttct tggggacaga ggctacagtt tagcaagctt tcttatggcg 540
acccttggtaa tttctttaca ttttatagac caaagaacaa tcttaactgt cctctttttc 600
taaaaggcatt gtttaaaaaa tgtcatcaaa tcatgtcagt ttatggcaaa tggccttttt 660
ttaaaaaaaa aaaaaaaaaa

```

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<210> 143
<211> 1168
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1163)..(1163)
<223> n equals a,t,g, or c

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<400> 143
ctggatctat agactcttct tgcctaaag aatggcatgt ttgactcct tcccccaaca 60
tgtacagatg cctgtcaact ttggtgact tgtctggcct ctagtccctg cagatgttta 120
agggagcaat gaattggggag ttggtgatga aactacggcc tcttgggac ttgtttcagat 180
gggggatttc cctctcttag gagaacctgt gctggaaaaa gtgtggcacc cactctgaaa 240
tggggcaagc tcttcccagc tttgtggggg ccttggaaa acatccactg agatgggggc 300
agctctcttc ctctctcttc tctctgctct cttgacctgg accagcaaga tagcccaat 360
ctttttctcc tgatggcagt attgaaatga ctttccagc tgaaggccag agaccagcct 420
acagctggga ttacggcttc aaagctttgt tgaggatgac tccagaacca ggcaggtagt 480
ccccctccag gatgccatgg cctaagcatt ttcactctc atgcactagg cgtgtaactc 540
attgtggctg acacttttat tgcgtgctat gtttttttagc aatgcccgcc acacagacct 600

```

gcttactatg	cttttgcgta	gtgagtgaag	ggataagtc	ctttctgccc	ttttgatact	660
cactttgggt	cccttgagg	tcacagagac	ctggatttga	ctttgggctc	tgccacacaa	720
gagcagcgat	gctttgggtc	agttacttca	gctctgagag	gctcaattgc	ctcaccctgt	780
aaatgggtta	gtgattccag	gaatcttacc	aggcccatg	gacagcatgt	acataaagag	840
ctagagccct	ccctctcctc	ccctcccgag	ggccaggcct	gactccccct	agccattttc	900
cttaccattt	tgatccctaa	gcctgtttac	agatcttctt	cttgatctac	caccatggct	960
caaatcttgc	cccttcacct	tgccctttct	aaagacaaaa	acaccctccc	ctctgctccc	1020
tcagagtgtg	gcggggaggc	ttatactgca	gtggtaaga	gcatacccc	ggaattggaa	1080
ggaacagggt	ctaagattat	gtagatatag	cacaaagcct	tgctctgctc	cgtgccgaat	1140
tcgatatcaa	gcttatcgat	acngtcga				1168

<210> 144

<211> 930

<212> DNA

<213> Homo sapiens

<400> 144

tcgagttttt	tttttttttt	ttttggata	ggagtctcac	tctgttgccc	aggetggagt	60
gctgttgtag	gatttcagct	caatgcaagc	tctgctctct	gggtttaagc	aattctctctg	120
ccctcagcctc	cccagtaggt	gggactacgg	gtgtgcaaca	caacatccgg	ctaatttttg	180
tatttttctg	agagacaggg	tttcacatgt	tgccaggcgt	ggctttaaac	tcctgacctc	240
agttgatcca	cctgcctggg	cctcccaaa	tgctgggatt	acaggcctaa	gccactgtgc	300
ccagctgcct	tggtgctggt	ttttattggt	agttaaagaa	gaccaacctat	tagaaaaagt	360
tttaaggctt	ttcaaaaggaa	gaatcctatg	taggcagccc	cactacaggt	tactttctga	420
tgatgtccca	ggactattac	aaaatccatg	attgtggaaa	ttctgtcaaa	agagatgaca	480
gagaaatctt	gcctttgggtc	acaatcctgt	ctgaccccaa	caaaagctaa	gaaaatcccta	540
atcagggtgtg	actcatgata	aagaaaaaca	tgcatccaaa	ttttgggtca	gaagtacaga	600
aagtgtgcga	ctctgtgcga	gttaattaat	gtatttgtct	cataactccc	cgacataata	660
ggtaagttgg	ttggagtagt	tggtttgaag	gctgctttca	aagatttaac	gtctttgatt	720
tttttagtca	ccatgggtgc	caggatagaa	taagatctgt	agactttcga	ataactgctt	780
acagatgtag	ataattataa	attgatacta	ataaagaatg	aagatctcag	cattccccag	840
agagggtcat	ttttagaaaa	aggaatatgc	caaaaacaaa	gtaaaaacaaa	aaacatcatg	900
ggatattcag	acttagctcg	tgccgaattc				930

<210> 145

<211> 830

<212> DNA

<213> Homo sapiens

<400> 145

ggtcgaccca	cgctgctgct	gaaagggaaa	gcactgtttg	gagaatgatc	cacctttcaa	60
gatttttact	attgttgata	atgctcccaa	atgtctctct	ttttacgggt	gactttctatt	120
ccataatatca	aagtgtatatt	tcttctccca	ggcaccacct	ctttgatcca	cacaattgat	180
caaggagtta	tagcagcttt	taagttctac	tacctgagaa	gggaggactt	ttgccagctc	240
ccactactgca	gtggagggaag	acactgagaa	gaactctgatg	aaattctgaa	cagcatcaag	300
aaacctgtgtt	aggtctggat	tatgtcgcta	aggactgtag	gaatggcacc	tggaagaaga	360
acgcgaagag	gttttcaaat	aacttcaaa	gattttccaa	ggatgaggaa	gttgcaaaaa	420
tcagaagaagc	tggtgttgag	attgcaaaaca	actttaacct	gggtgtggat	gtggatgaca	480
tgtagtaatt	cctagagggg	gttctgtgag	aattgatcaa	tggtgttgct	ttggaactgg	540
aatgaggtgt	catagctgaa	gaagaggtaa	agaaaaagaa	agtgcaggag	aagggaacaa	600
agaactccca	agaataactca	cagtgtatgg	tttagcagaa	gcttcttcag	actccacaaa	660
gctccttaag	aagtctgaaa	acatggaccc	caaaaactgaa	aggtttttcac	taatatgagag	720
gaaagtccat	gggtcattat	ctgcctacaa	gcacaaaccag	gattcaaaaa	accccttgag	780
ctggagcttc	aaagacacaa	aaaaaaaaaa	aaaaaaaaaa	aagggcgcc		830

<210> 146

<211> 865

<212> DNA

<213> Homo sapiens

<220>

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<220>
<221> misc_feature
<222> (409)..(409)
<223> n equals a,t,g, or c
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#400> 146						
ggctgaccaca	cgcgtccgga	gtagcagaaa	tttgtcttct	tacaagtagt	ctatgagagt	60
agatgcgtgat	ttctttaatg	taagggaata	agaaaaactc	catgattaac	ttttttcacg	120
tgattttggg	ctcttggtag	agtagggcaag	agaataatac	gtgggttat	agagtaagca	180
aaagatgtgc	aggaaaaaact	aggaagaata	ggagctgaact	gtggctgtat	ttcaggagag	240
ttcttgggat	tcagacttga	atataactgaa	tgatgctgta	atgataaagt	gtgtgtgatag	300
gtgtattctg	gcaaaagaag	ntaaactctg	gctacttttt	attatcgatt	acggtatggg	360
tgactactcg	tcaggtatcca	aggtcttkgat	tttttaaaac	tgtgtttcnt	gactgttgta	420
cgctggagacc	caggatacac	gacttttktg	taaatatacat	ctgcctccact	ctgcctctcc	480
gtgtggggcct	ctctaaacct	gggccaagca	gtgagcttca	ctctcggggg	gcctggaggt	540
aggggtggata	cagcttgggt	aatctcagat	ctgtacactaa	aaacttactc	aaagttagct	600
tcatgtaaaag	aaagtcastgg	tttttggaaa	caggggtgag	tgaattggagg	cgaagggtgg	660
ggacctctcac	aggtcagctca	ggcctctcagg	gtgtgacaacg	agctgtatggg	ctctctgttta	720
taaacctgtg	tgtgtggagac	cagcagctgta	gccaaactat	ctttattatt	cagacaattt	780
caactaaaaa	ggaatctcaag	ggtcattctgg	catcagcact	ttaaccaata	aaaaaaaaaa	840
aaaaaaaaaa	aaaaaaaaaq	cgcgc				865

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<210> 147
<211> 545
<212> DNA
<213> Homo sapiens
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[illegible]

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<210> 148
<211> 470
<212> DNA
<213> Homo sapiens
```

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<220>
<221> misc_feature
<222> (315)..(315)
<223> n equals a,t,g, or c
```

c400> 148							
cgcgcgcgcgc	cgctcacagcg	accctgacgc	cggtccgcgc	cgcacagacac	ccagagagac		60
gccacagggcc	gcggagggggc	gaagacacgc	agtaactctc	ccctccacc	caaccccgat		120
cgccagccgc	ccgagagctct	gtgctccagc	ccgagatgcg	acgcctctgt	gat tggctgc		180
gcctctcttc	taatgacatc	gctcagcgtc	ctcggaacgc	ctcatccgcg	gaatgggggc		240
ccagggggggt	gactgtgggg	gcttcctcct	ttgcagctac	ctctgtggta	ggcggcggtc		300
tccacacata	ggaaataccc	atctcagatc	ctgtctcctg	ccctctctg	tgtgggatgc		360
tgacacacga	gccacacacc	ctctcgcttc	ttcaactcct	tgaactcgtg	tcacatcgca		420

ataaacgaca gctcggctg cctcgtgctg aaaaaaaaaa aaaaaaaaaa

470

<210> 149

<211> 1766

<212> DNA

<213> Homo sapiens

<400> 149

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gtkattcaaa gccatcacia aacactataa gactgaccaa aatttagata accttgaac    60
cacgattttt tccacacatc gtctgtgaga cacagcgcaa tgcctactgcc cttccagaaa    120
ctgtgctaaa aagagaagat ccaaagact ctaaacaaaa acctcgagcg cgttgaggat    180
gtgtttcatt ctgtgtgtct gttttgcaag cttgataaca gaatgtccgt gccattgtta    240
atgttgtaga gatgtgggcc gtggcccaac cgtcctatat gagatgtagc atgggtacaga    300
acaaactgct tacacaggtc tcaactagta gaaacctgtg ggccatggag gtcagacatc    360
catcttgttc atctatagcc aagaagtgtt tccagatcct ttggaaagggt gggcatgggg    420
caggtgcttg gagagtgctg tttgagccag agcgacccca tttcccgctg gaaccatagg    480
cacacccagg gaagtgtccc cacttgtagg agtgtgggta ttccagagca agactgtggc    540
caccatcttc cctcttggtt gttttccgaa agtgacagtg ttgggtcatcc catgaccact    600
gaagcttagt aaccagcgcc aaaaagtaga ttcatcaaac tagagacccc agctccctct    660
ctcgccatct tctttctcaa gttagccgtg gtgctgtttc tggaaaggcat ctgcaactcc    720
aagtcctatg agaactctg aaggccaaat tcatcgagc atgttcacca tatccagacc    780
tccaaatcta tctctctacc ttccaacgca tgacctgttg gggagcagag acttaacccc    840
caactcagag gaacctcttc tccagcgctc ttggcatggt tcttaggggt agagtcccc    900
atttggtagt aacggccacc atattggtta ctgaatctct ctcccttgtt tttattacgt    960
ttcctttttc aaactgtcca tgggaaggct gaattgagtg actccccaga atgaagatga    1020
gaagtggaat ataatacaat ccaatgtaat gccagcgggg tgagatgccc gatggagrtt    1080
tcaaagatgt agctagcatt ttgaaacat atgggcaaaa cccggcaacc agaaggggac    1140
agataaggac cgttccagaa atcccaactc tcacacccag cccaggctgc agtctccaca    1200
ccaaacagtc aacaaaaaac aaacctgaa gggaaaacct ttccatacac cagggctatg    1260
cattagaagc ttttccactg tatacathtt tatccagatg aaggattttt tatattttga    1320
caataggaaa cagtgaccat tttcagagta atcaaatctg gaacaaatga aacatctttt    1380
agccaccacc accctgttgc aattaagaca accgtggggg aacacaccac tttttactgt    1440
tgaaaccacc acaacgttga aatccaggct tatacgcaga ctccgattcc cttagagaa    1500
aaatttgctt ttatgtgtac gggatttgat taagcactta gtatagtctt ttgaacacgg    1560
aaatcctggt gtacttaaag ctagcggacc cgtgaacaac tttgtcaggt tcacgtccta    1620
taacggttma aaracacaca cacacataga caaacgggtt ctatgagaga ttgatgaact    1680
ttgtttaaaa ttttaaaaaa aggaacacgt tctgtaaacg agtcgctaaa tacagaattg    1740
tataataaaa aaaaaaaaaa aaaaawt

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<210> 150

<211> 1048

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (79)..(79)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (117)..(117)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (138)..(138)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (144)..(144)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (147)..(147)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (625)..(625)
 <223> n equals a,t,g, or c

<400> 150
 ggcacgagag aaagtgggccc cttaccaggc accaaatctg ccagcactct gatcttggac 60
 ttccagcctc ctggaactgnt gtcgtcattc aaaagaacat tctattaaag ctacctnaat 120
 ttggcgctta tttttctnaa tcangtntct gacaatcata ttgtgtggaa tgggtgctgc 180
 tttaagtgc ataagagcta actgccatca agagccatca gtatgttctt caagctgcat 240
 gccacagaag ctggattggt tttcaaagaa agtggttcta tttttctgat gacaccaaga 300
 actggacatc aagtcagagg tttgtgact cacaagatgc tgatcttgct caggttgaaa 360
 gcttcaggga actggtaaga aaatagtctt ggcagaaatc aaagattcag cctacaagg 420
 atatgttttc ctgtgaaatt atctaagaga atttctgttt gagatataaa ggcccatctg 480
 atcactggat tgggctgagc agagaacaag gccaaacctg gaaatggata aatggtactg 540
 aatggacaag acagtttagt atgaaagaag atgggtgccaa ctgtgatgtt gcaaagggtt 600
 cacaagttcc tcgaatgaat ccaanactgt catgggtctt actctgttac ccaggctgctg 660
 gtgcagtar taccatctgt gctcaactgca gccttgactt cccctggctcc aagtgaagct 720
 cccatctcag gctcctgagt agctgggact acaggtttcc tatctgtgga gcaggagagt 780
 gtgctatttt gaatgacaaa ggtgccagta gtgccaggca ctacacagag aggaagtgga 840
 ttgtttccaa atcagatata catgtctaga tgttacagca aagccccaac taatctttag 900
 aagcatattg gaactgataa ctccatttta aaatgagcaa agaatttatt tcttatacca 960
 acaggtatat gaaaatatgc tcaatatcac taataactgg gaaaatacaa atcaaaaatca 1020
 tagtaaaaata aaaaaaaaaa aaaaaaaa 1048

<210> 151
 <211> 264
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 151

Met Ala Thr Pro Leu Pro Pro Ser Pro Arg His Leu Arg Leu Leu
1 5 10 15

Arg Leu Leu Leu Ser Gly Leu Val Leu Gly Ala Ala Leu Arg Gly Ala
20 25 30

Ala Ala Gly His Pro Glu Cys Cys Arg Leu Ser Arg Glu Pro Gly Leu
35 40 45

Cys Pro Glu Glu Ala Gly Lys Cys Pro Pro Gly Ala His Ala Cys Gly
50 55 60

Pro Ala Phe Ser Pro Ser Xaa Arg Asn Ser Lys Gly Leu Phe Cys Xaa
65 70 75 80

Asp Ala Pro Gly Phe Xaa Arg Gly Pro Gly Pro Thr Xaa Thr Xaa Asn
85 90 95

Glu Ile Asp Ser Trp Pro Lys Gly Ala Cys Pro Glu Arg Asn Leu Asp
100 105 110

Ile Asn Ser Ala Leu Thr Gln Gly Arg Thr Ala Val Pro Gly Ala Cys
115 120 125

His Leu Gly Ile Xaa Gly Thr Gly Ala Gly Ala Gly Leu Pro
130 135 140

Phe His Ser Arg Asn Pro His Ala His Ala Pro His Xaa Pro Trp Val
145 150 155 160

Thr Pro Val Ser Ser Asp Pro Val His Met Ser Pro Leu Glu Pro Arg
165 170 175

Gly Gly Gln Gly Asp Gly Xaa Ala Leu Val Leu Ile Leu Ala Phe Cys
180 185 190

Val Ala Gly Ala Ala Ala Leu Ser Val Ala Ser Xaa Cys Trp Cys Arg
195 200 205

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Leu Gln Arg Glu Ile Arg Leu Thr Gln Lys Ala Glu Tyr Ala Thr Ala
 210 215 220

Lys Ala Leu Ala Thr Pro Ala Ala Thr Pro Asp Leu Ala Trp Gly Pro
 225 230 235 240

Ala Pro Gly Thr Glu Arg Gly Asp Val Pro Leu Pro Ala Pro Thr Ala
 245 250 255

Thr Asp Val Val Pro Gly Ala Ala
 260

<210> 152

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 152

Met Lys Gly Ile Leu Val Ala Gly Ile Thr Ala Val Leu Val Ala Ala
 1 5 10 15

Val Glu Ser Leu Ser Cys Val Gln Cys Asn Ser Trp Glu Lys Ser Cys
 20 25 30

Val Asn Ser Ile Ala Ser Glu Cys Pro Ser His Ala Asn Thr Ser Cys
 35 40 45

Ile Ser Ser Ser Ala Ser Ser Ser Leu Glu Thr Pro Val Arg Leu Tyr
 50 55 60

Gln Asn Met Phe Cys Ser Ala Glu Asn Cys Ser Glu Glu Thr His Ile
 65 70 75 80

Thr Ala Phe Thr Val His Val Ser Ala Glu Glu His Phe His Phe Val
 85 90 95

Ser Gln Cys Cys Gln Gly Lys Glu Cys Ser Asn Thr Ser Asp Ala Leu
 100 105 110

Asp Pro Pro Leu Lys Asn Val Ser Ser Asn Ala Glu Cys Pro Ala Cys
 115 120 125

Tyr Glu Ser Asn Gly Thr Ser Cys Xaa Gly Lys Pro Trp Lys Cys Tyr
 130 135 140

Glu Glu Glu Gln Cys Val Xaa Leu Val Ala Glu Leu Lys Asn Asp Ile
 145 150 155 160

0973278-101601

Glu Ser Lys Ser Leu Val Leu Lys Gly Cys Ser Asn Val Ser Asn Ala
 165 170 175

Thr Cys Gln Phe Leu Ser Gly Glu Asn Lys Thr Leu Gly Gly Val Ile
 180 185 190

Phe Arg Lys Phe Glu Cys Ala Asn Val Asn Ser Leu Thr Pro Thr Ser
 195 200 205

Ala Pro Thr Thr Ser His Asn Val Gly Ser Lys Ala Ser Leu Tyr Leu
 210 215 220

Leu Ala Leu Ala Ser Leu Leu Leu Arg Gly Leu Leu Pro
 225 230 235

<210> 153
 <211> 175
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (142)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (149)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (155)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (158)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (160)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (163)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 153
 Met Tyr Trp Ile Val Phe Ala Leu Tyr Thr Val Ile Glu Thr Val Ala
 1 5 10 15

Asp Gln Thr Val Ala Trp Phe Pro Leu Tyr Tyr Glu Leu Lys Ile Ala
 20 25 30

Phe Val Ile Trp Leu Leu Ser Pro Tyr Thr Lys Gly Ala Ser Leu Ile
 35 40 45

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Tyr Arg Lys Phe Leu His Pro Leu Leu Ser Ser Lys Glu Arg Glu Ile
50 55 60

Asp Asp Tyr Ile Val Gln Ala Lys Glu Arg Gly Tyr Glu Thr Met Val
65 70 75 80

Asn Phe Gly Arg Gln Gly Leu Asn Leu Ala Ala Thr Ala Ala Val Thr
85 90 95

Ala Ala Val Lys Ser Gln Gly Ala Ile Thr Glu Arg Leu Arg Ser Phe
100 105 110

Ser Met His Asp Leu Thr Thr Ile Gln Gly Asp Glu Pro Val Gly Gln
115 120 125

Arg Pro Tyr Gln Pro Leu Pro Glu Ala Lys Lys Lys Ser Xaa Gln Pro
130 135 140

Pro Val Asn Gln Xaa Val Met Glu Phe His Xaa Lys Thr Xaa Met Xaa
145 150 155 160

Lys Gln Xaa Lys Lys Gln Arg Gly His Ile Gln Ile Met Arg Cys
165 170 175

<210> 154

<211> 197

<212> PRT

<213> Homo sapiens

<400> 154

Met Cys Thr Gly Lys Cys Ala Arg Cys Val Gly Leu Ser Leu Ile Thr
1 5 10 15

Leu Cys Leu Val Cys Ile Val Ala Asn Ala Leu Leu Leu Val Pro Asn
20 25 30

Gly Glu Thr Ser Trp Thr Asn Thr Asn His Leu Ser Leu Gln Val Trp
35 40 45

Leu Met Gly Gly Phe Ile Gly Gly Gly Leu Met Val Leu Cys Pro Gly
50 55 60

Ile Ala Ala Val Arg Ala Gly Gly Lys Gly Cys Cys Gly Ala Gly Cys
65 70 75 80

Cys Gly Asn Arg Cys Arg Met Leu Arg Ser Val Phe Ser Ser Ala Phe
85 90 95

Gly Val Leu Gly Ala Ile Tyr Cys Leu Ser Val Ser Gly Ala Gly Leu
100 105 110

Arg Asn Gly Pro Arg Cys Leu Met Asn Gly Glu Trp Gly Tyr His Phe
115 120 125

Glu Asp Thr Ala Gly Ala Tyr Leu Leu Asn Arg Thr Leu Trp Asp Arg
130 135 140

Cys Glu Ala Pro Pro Arg Val Val Pro Trp Asn Val Thr Leu Phe Ser

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09073270-100001

83

145 150 155 160
 Leu Leu Val Ala Ala Ser Cys Leu Glu Ile Val Leu Cys Gly Ile Gln
 165 170 175
 Leu Val Asn Ala Thr Ile Gly Val Phe Cys Gly Asp Cys Arg Lys Lys
 180 185 190
 Gln Asp Thr Pro His
 195

<210> 155
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 155
 Met Leu Ser Phe Val Ser Arg Cys His Trp Ser Ser Ile Ala Glu Glu
 1 5 10 15
 Ser Glu Phe Leu Phe Leu Ile Leu Val Cys Tyr Phe Ser Ser Ser Cys
 20 25 30
 Ser Ser Cys Ile Ile His Gln Trp Tyr Tyr Val
 35 40

<210> 156
 <211> 313
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (167)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 156
 Met Asn Gln Leu Ser Phe Leu Leu Phe Leu Ile Ala Thr Thr Arg Gly
 1 5 10 15
 Trp Ser Thr Asp Glu Ala Asn Thr Tyr Phe Lys Glu Trp Thr Cys Ser
 20 25 30
 Ser Ser Pro Ser Leu Pro Arg Ser Cys Lys Glu Ile Lys Asp Glu Cys
 35 40 45
 Xaa Ser Ala Phe Asp Gly Leu Tyr Phe Leu Arg Thr Glu Asn Gly Val
 50 55 60
 Ile Tyr Gln Thr Phe Cys Asp Met Thr Ser Gly Gly Gly Trp Thr
 65 70 75 80

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<400> 157
Met Thr Pro Leu Leu Thr Leu Ile Leu Val Val Leu Met Gly Leu Pro
 1              5              10              15
Leu Ala Gln Ala Leu Asp Cys His Val Cys Ala Tyr Asn Gly Asp Asn
      20              25              30
Cys Phe Asn Pro Met Arg Cys Pro Ala Met Val Ala Tyr Cys Met Thr
 35              40              45
```


Thr Arg Thr Tyr Tyr Thr Pro Thr Arg Met Lys Val Ser Lys Ser Cys
 50 55 60

Val Pro Arg Cys Phe Glu Thr Val Tyr Asp Gly Tyr Ser Lys His Ala
 65 70 75 80

Ser Thr Thr Ser Cys Cys Gln Tyr Asp Leu Cys Asn Gly Thr Gly Leu
 85 90 95

Ala Thr Pro Ala Thr Leu Ala Leu Ala Pro Ile Leu Leu Ala Thr Leu
 100 105 110

Trp Gly Leu Leu
 115

<210> 158
 <211> 173
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (110)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (118)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (168)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 158
 Met Gln Leu Ile Pro Leu Glu Gln Leu Cys Met Leu Leu Leu Met Ser
 1 5 10 15

Asp Asn Val Asp Arg Cys Phe Glu Thr Cys Pro Pro Arg Thr Phe Leu
 20 25 30

Pro Ala Leu Cys Lys Ile Phe Leu Asp Glu Ser Ala Pro Asp Asn Val
 35 40 45

Leu Glu Val Thr Ala Arg Ala Ile Thr Tyr Tyr Leu Asp Val Ser Ala
 50 55 60

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Glu Cys Thr Arg Arg Ile Val Gly Val Asp Gly Ala Ile Lys Ala Leu
65 70 75 80

Cys Asn Xaa Leu Val Val Val Glu Leu Asn Asn Arg Thr Ser Arg Asp
85 90 95

Leu Ala Glu Gln Cys Val Lys Val Leu Glu Leu Ile Cys Xaa Pro Glu
100 105 110

Ser Gly Xaa Val Phe Xaa Ala Gly Gly Leu Asn Arg Val Ala Tyr Leu
115 120 125

Pro Ser Val Asn Ser Gly His Leu Val His Lys Asp Thr Leu His Ser
130 135 140

Ala Met Ala Val Val Ser Arg Leu Cys Gly Lys Met Glu Pro Gln Asp
145 150 155 160

Ser Ser Leu Glu Ile Cys Val Xaa Ser Leu Ser Ser Leu
165 170

<210> 159

<211> 67

<212> PRT

<213> Homo sapiens

<400> 159

Met Ile Phe Arg Asn Gly Val Arg Leu Val Phe Val Phe Val Leu Phe
1 5 10 15

Tyr Thr Ser Thr Gln Ser Leu Phe Asn Ser Leu Gln Thr Ala Glu Tyr
20 25 30

Val Leu Phe Cys Gln Gln Arg Leu Ser Leu Tyr Glu Pro Ser His Val
35 40 45

Leu Cys Leu Cys Met Ser Pro His Arg Lys His Thr Arg Glu Ser Asp
50 55 60

Thr Ser Gly
65

<210> 160

<211> 228

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 160

Met Val Leu Gly Leu Phe Val Pro Pro Val Phe Val Val Ser Tyr Ala
1 5 10 15

Lys Asp Leu Gly Val Pro Asp Thr Lys Ala Ala Phe Leu Leu Thr Ile

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20 25 30
 Leu Gly Phe Ile Asp Ile Phe Ala Arg Pro Ala Ala Gly Phe Val Ala
 35 40 45
 Gly Leu Gly Lys Val Arg Pro Tyr Ser Val Tyr Leu Phe Ser Phe Ser
 50 55 60
 Met Phe Phe Asn Gly Leu Ala Asp Leu Ala Gly Ser Thr Ala Gly Asp
 65 70 75 80
 Tyr Gly Gly Leu Val Val Phe Cys Ile Phe Gly Ile Ser Tyr Gly
 85 90 95
 Met Val Gly Ala Leu Gln Phe Glu Val Leu Met Ala Ile Val Gly Thr
 100 105 110
 His Lys Phe Ser Ser Ala Ile Gly Leu Val Leu Leu Met Glu Ala Val
 115 120 125
 Ala Val Leu Val Gly Xaa Pro Ser Gly Gly Lys Leu Leu Asp Ala Thr
 130 135 140
 His Val Tyr Met Tyr Val Phe Ile Leu Ala Gly Ala Glu Val Leu Thr
 145 150 155 160
 Ser Ser Leu Ile Leu Leu Leu Gly Asn Phe Phe Cys Ile Arg Lys Lys
 165 170 175
 Pro Lys Glu Pro Gln Pro Glu Val Ala Ala Glu Glu Glu Lys Leu
 180 185 190
 His Lys Pro Pro Ala Asp Ser Gly Val Asp Leu Arg Glu Val Glu His
 195 200 205
 Phe Leu Lys Ala Glu Pro Glu Lys Asn Gly Glu Val Val His Thr Pro
 210 215 220
 Glu Thr Ser Val
 225

<210> 161

<211> 36

<212> PRT

<213> Homo sapiens

<400> 161

Met Asn Gly Leu Val Arg Pro Val Glu Leu Asn Ser Leu Leu Pro
 1 5 10 15

Val Val Arg Tyr Gln Val Ala Gln Pro Gln Lys Leu Leu Asn Val Phe
 20 25 30

Val Gly Gly Leu
 35

<210> 162

<211> 98
 <212> PRT
 <213> Homo sapiens

<400> 162
 Met Lys Leu Met Val Leu Val Phe Thr Ile Gly Leu Thr Leu Leu Leu
 1 5 10 15
 Gly Val Gln Ala Met Pro Ala Asn Arg Leu Ser Cys Tyr Arg Lys Ile
 20 25 30
 Leu Lys Asp His Asn Cys His Asn Leu Pro Glu Gly Val Ala Asp Leu
 35 40 45
 Thr Gln Ile Asp Val Asn Val Gln Asp His Phe Trp Asp Gly Lys Gly
 50 55 60
 Cys Glu Met Ile Cys Tyr Cys Asn Phe Ser Glu Leu Leu Cys Cys Pro
 65 70 75 80
 Lys Asp Val Phe Phe Gly Pro Lys Ile Ser Phe Val Ile Pro Cys Asn
 85 90 95
 Asn Gln

<210> 163
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 163
 Met Tyr His Tyr Ala Trp Leu Ile Phe Val Phe Leu Val Glu Met Gly
 1 5 10 15
 Phe Cys His Val Gly Gln Ala Gly Leu Lys Leu Leu Thr Ser Ser Asp
 20 25 30
 Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His
 35 40 45
 His Ala Trp Gly Lys Arg Tyr Phe Gln Asn Ile Val Asn Asn Phe Ser
 50 55 60
 Pro Lys Pro Arg Gln Gly Leu Ile Leu Leu Pro Arg Leu Glu Trp Gln
 65 70 75 80
 Gly His His Arg Ser Ser Leu Gln Pro
 85

<210> 164
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 164
 Met Gly Gly Leu Glu Pro Cys Ser Arg Leu Leu Leu Leu Pro Leu Leu

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89

1 5 10 15
 Leu Ala Val Gly Leu Arg Pro Val Gln Ala Gln Ala Gln Ser Asp Cys
 20 25 30
 Ser Cys Ser Thr Val Ser Pro Gly Val Leu Ala Gly Ile Val Met Gly
 35 40 45
 Asp Leu Val Leu Thr Val Leu Ile Ala Leu Ala Val Tyr Phe Leu Gly
 50 55 60
 Arg Leu Val Pro Arg Gly Arg Gly Ala Ala Glu Ala Thr Arg Lys Gln
 65 70 75 80
 Arg Ile Thr Glu Thr Glu Ser Pro Tyr Gln Glu Leu Gln Gly Gln Arg
 85 90 95
 Ser Asp Val Tyr Ser Asp Leu Asn Thr Gln Arg Pro Tyr Tyr Lys
 100 105 110

<210> 165

<211> 63

<212> PRT

<213> Homo sapiens

<400> 165

Met Ala Ser Leu Leu Gln Arg Asn Leu Cys Pro Arg Leu Ser Val Cys
 1 5 10 15
 Leu Val Phe Ile Gln Val Phe Val Cys Cys Val Glu Gly Gly Gly Arg
 20 25 30
 Arg Val Lys Ala Val Leu Phe Arg Ala Pro Phe Gly Glu His Ser Arg
 35 40 45
 Gln Asn Thr Leu Val Ile Pro Ser Gln Thr Gly Leu Gln Ala His
 50 55 60

<210> 166

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 166

Met Asn Pro Phe Ser Val Phe Xaa Ser Leu Cys Leu Lys Gln Phe Glu
 1 5 10 15

Asp Val Xaa Leu Phe Leu Gly Leu Met Phe Gly Xaa Ser Leu Asn Gly
 20 25 30

Gln Glu Gly Thr
 35

<210> 167

<211> 38

<212> PRT

<213> Homo sapiens

<400> 167

Met Tyr Ile Phe Tyr Leu Tyr Lys Ile Tyr Ile Tyr Thr His Ile Cys
 1 5 10 15

Ile Tyr Ile Pro Leu Phe Leu Cys Leu Leu Ile Leu Ala Ile Lys Glu
 20 25 30

Gly Ala Ala Phe Asn Val
 35

<210> 168

<211> 61

<212> PRT

<213> Homo sapiens

<400> 168

Met Asn Glu Ser Val Tyr Asp Asp Ser Thr Ser Ser Tyr Thr Pro Ser
 1 5 10 15

Leu His Ile Leu Gly Cys Leu Leu Leu Leu Phe Leu Gly Val Glu Arg
 20 25 30

Ala Leu Glu Pro Phe Ser Gly Leu Cys Ala Ser Leu His Asp Val Arg
 35 40 45

Pro Ile Val Asn Pro Leu Thr Ser Phe Ser Leu Ile Tyr
 50 55 60

<210> 169

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 169

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Met Ser Asp Lys Leu Ser Pro Ser Thr Val Pro Leu Leu Leu Pro Val
1 5 10 15

Leu Phe Lys Val Thr Ile Leu Leu Gln Arg Val Cys Pro Glu Asp Ser
20 25 30

Pro Ser Ser Ser Val Leu Pro Glu Ser Val Xaa Arg Glu
35 40 45

<210> 170

<211> 116

<212> PRT

<213> Homo sapiens

<400> 170

Met Thr His Lys Ser Leu Val Tyr Leu Trp Phe Leu Cys Ser Ser Val
1 5 10 15

Ala Leu Ala Leu Gly Ala Leu Thr Val Trp His Ala Val Leu Ile Ser
20 25 30

Arg Gly Glu Thr Ser Ile Glu Arg His Ile Asn Lys Lys Glu Arg Arg
35 40 45

Arg Leu Gln Ala Lys Gly Arg Val Phe Arg Asn Pro Tyr Asn Tyr Gly
50 55 60

Cys Leu Asp Asn Trp Lys Val Phe Leu Gly Val Asp Thr Gly Arg His
65 70 75 80

Trp Leu Thr Arg Val Leu Leu Pro Ser Ser His Leu Pro His Gly Asn
85 90 95

Gly Met Ser Trp Glu Pro Pro Pro Trp Val Thr Ala His Ser Ala Ser
100 105 110

Val Met Ala Val
115

<210> 171

<211> 41

<212> PRT

<213> Homo sapiens

<400> 171

Met Ser Val Leu Phe Val Ala Val Ser Leu Leu Ser Ser Ile Val Pro
1 5 10 15

Asp Ile Gln Tyr Arg Leu Lys Thr Tyr Leu His Ile Asp Leu Trp Lys
20 25 30

Thr Asp Thr Gln Val Leu Lys Asn Lys
35 40

<210> 172

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<211> 281
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (216)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (227)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (268)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 172
 Met Gly Phe Pro Gln Arg Gln Pro Gly Leu Ser Gly Leu Leu Leu Leu
 1 5 10 15
 Val Trp Ala Leu Ala Trp Pro Leu Pro Cys Met Ser Leu Glu Leu Ile
 20 25 30
 Pro Tyr Thr Pro Gln Ile Thr Ala Trp Asp Leu Glu Gly Lys Val Thr
 35 40 45
 Ala Thr Thr Phe Ser Leu Glu Gln Pro Arg Cys Val Leu Asp Gly Leu
 50 55 60
 Ala Gly Val Ala Ser Thr Ile Trp Leu Val Val Ala Phe Ser Asn Ala
 65 70 75 80
 Ser Arg Asp Phe Gln Asn Pro Gln Thr Arg Ala Glu Ile Pro Ala Phe
 85 90 95
 Pro Arg Leu Leu Thr Glu Gly His Tyr Met Thr Leu Pro Leu Ser Leu
 100 105
 Asp Gln Leu Pro Cys Gln Asp Pro Ala Gly Gly Gly Arg Asp Val Pro
 115 120 125
 Leu Leu Arg Val Gly Asn Asp Pro Gly Cys Leu Ala Asp Leu Leu Gln
 130 135 140
 Pro Pro Tyr Cys Asn Ser Pro Leu Pro Ser Pro Gly Pro Tyr Arg Val
 145 150 155 160
 Lys Phe Leu Leu Met Asp Ala Arg Gly Ser Pro Gln Ala Glu Thr Arg
 165 170 175
 Trp Ser Asp Pro Ile Ala Leu His Gln Gly Lys Ser Pro Ala Ser Ile
 180 185 190
 Asp Thr Trp Pro Gly Arg Arg Ser Gly Gly Met Ile Val Ile Thr Ser
 195 200 205
 Ile Leu Ser Ser Leu Ala Ser Xaa Leu Leu Leu Ala Phe Leu Ala Ala
 210 215 220

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Ser Thr Xaa Arg Phe Ser Ser Leu Trp Trp Pro Glu Glu Ala Pro Glu
225 230 235 240

Gln Leu Arg Ile Gly Ser Phe Met Gly Lys Arg Tyr Met Thr His His
245 250 255

Ile Pro Pro Ser Glu Ala Ala Thr Leu Pro Val Xaa Cys Glu Pro Gly
260 265 270

Leu Asp Pro Leu Pro Ser Leu Ser Pro
275 280

<210> 173

<211> 5

<212> PRT

<213> Homo sapiens

<400> 173

Met Gly Tyr Leu Asn
1 5

<210> 174

<211> 58

<212> PRT

<213> Homo sapiens

<400> 174

Met Pro Phe Ala Trp Asn Asp Leu Thr Ser Leu Leu Phe Tyr Leu Ala
1 5 10 15

Gly Cys Phe Ser Ser Cys Arg Leu Gly Gln Gly Thr Pro Gly Ser Leu
20 25 30

Pro Trp Thr Ser Asn Glu Glu Gly Ile Ile Gln Gly Pro Thr Pro Met
35 40 45

Phe Trp Asn Leu Thr Pro Phe Ser Gly Thr
50 55

<210> 175

<211> 179

<212> PRT

<213> Homo sapiens

<400> 175

Met Leu Tyr Tyr Leu Trp Met Leu His Ser Val Thr Leu Phe Leu Asn
1 5 10 15

Leu Leu Ala Cys Leu Ala Trp Phe Ser Gly Asn Ser Ser Lys Gly Val
20 25 30

Asp Phe Gly Leu Ser Ile Leu Trp Phe Leu Ile Phe Thr Pro Cys Ala
35 40 45

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Phe Leu Cys Trp Tyr Arg Pro Ile Tyr Lys Ala Phe Arg Ser Asp Asn
 50 55 60
 Ser Phe Ser Phe Phe Val Phe Phe Phe Val Phe Phe Cys Gln Ile Gly
 65 70 75 80
 Ile Tyr Ile Ile Gln Leu Val Gly Ile Pro Gly Leu Gly Asp Ser Gly
 85 90 95
 Trp Ile Ala Ala Leu Ser Thr Leu Asp Asn His Ser Leu Ala Ile Ser
 100 105 110
 Val Ile Met Met Val Val Ala Gly Phe Phe Thr Leu Cys Ala Val Leu
 115 120 125
 Ser Val Phe Leu Leu Gln Arg Val His Ser Leu Tyr Arg Arg Thr Gly
 130 135 140
 Ala Ser Phe Gln Gln Ala Gln Glu Glu Phe Ser Gln Gly Ile Phe Ser
 145 150 155 160
 Ser Arg Thr Phe His Arg Ala Ala Ser Ser Ala Ala Gln Gly Ala Phe
 165 170 175
 Gln Gly Asn

<210> 176

<211> 44

<212> PRT

<213> Homo sapiens

<400> 176

Met Thr Ser His Pro Ser Trp Arg Leu Ile Leu Val Thr Ser Leu Val
 1 5 10 15

Leu Gly Val Glu Pro Glu Glu Ala Pro Gly Glu Ala Gly Glu Gly Ser
 20 25 30

Gly Gly Gln Arg Thr Met Asp Pro Glu Gln Lys Trp
 35 40

<210> 177

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 177

Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu
 1 5 10 15

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys

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20 25 30
 Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
 35 40 45
 Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Asp Tyr Trp Glu Gln
 50 55 60
 Leu Arg Cys Leu Xaa Glu Arg Phe Thr Ile Thr Ala Gly
 65 70 75

<210> 178
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 178
 Met Ser Val Lys Val Gly Ser Leu Leu Val Leu Val Tyr Phe Thr Leu
 1 5 10 15
 Gly Pro Val Val Ala Glu Leu Glu Val Thr Leu Pro Ser His Ser
 20 25 30

<210> 179
 <211> 257
 <212> PRT
 <213> Homo sapiens

<400> 179
 Met Ala Ala Leu Thr Thr Val Val Val Ala Ala Ala Thr Ala Val
 1 5 10 15
 Ala Gly Ala Val Ala Gly Ala Gly Ala Thr Gly Thr Gly Val Gly
 20 25 30
 Ala Thr Pro Ala Pro Gln Gln Ser Asp Gly Cys Phe Ser Thr Ser Gly
 35 40 45
 Gly Ile Arg Pro Phe His Leu Gln Asn Trp Lys Gln Lys Val Asn Gln
 50 55 60
 Thr Lys Lys Ala Glu Phe Val Arg Thr Ala Glu Lys Phe Lys Asn Gln
 65 70 75 80
 Val Ile Asn Met Glu Lys Asp Lys His Ser His Phe Tyr Asn Gln Lys
 85 90 95
 Ser Asp Phe Arg Phe Glu His Ser Met Leu Glu Glu Leu Glu Asn Lys
 100 105 110
 Leu Ile His Ser Arg Lys Thr Glu Arg Ala Lys Phe Gln Gln Gln Leu
 115 120 125
 Ala Lys Ile His Asn Asn Val Lys Lys Leu Gln His Gln Leu Lys Asp
 130 135 140
 Val Lys Pro Thr Pro Asp Phe Val Glu Lys Leu Arg Glu Met Met Glu

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96
145 150 155 160
Glu Ile Glu Asn Ala Ile Asn Thr Phe Lys Glu Glu Gln Arg Leu Ile
165 170 175
Tyr Glu Glu Leu Ile Lys Glu Glu Lys Thr Thr Asn Asn Glu Leu Ser
180 185 190
Ala Ile Ser Arg Lys Ile Asp Thr Trp Ala Leu Gly Asn Ser Glu Thr
195 200 205
Glu Lys Ala Phe Arg Ala Ile Ser Ser Lys Val Pro Val Asp Lys Val
210 215 220
Thr Pro Ser Thr Leu Pro Glu Glu Val Leu Asp Phe Glu Lys Phe Leu
225 230 235 240
Gln Gln Thr Gly Gly Arg Gln Gly Ala Trp Asp Val Ile Thr Arg Thr
245 250 255
Leu

<210> 180
<211> 37
<212> PRT
<213> Homo sapiens

<400> 180
Met Ala Phe Leu Leu Thr Leu Val Pro Leu Leu Pro Ser Arg Cys Leu
1 5 10 15
Gly Leu Glu Glu Met Ala Val Pro Asn Ser Thr Cys Ile Ser Pro Phe
20 25 30

Ser Cys Cys Tyr Gly
35

<210> 181
<211> 344
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 181
Met Glu Lys Ile Gly Ser Ser Leu Pro Gln Asp Asp Ala Pro Lys
1 5 10 15

Lys Gln Ala Leu Tyr Leu Met Phe Asp Thr Ser Gln Glu Ser Pro Val
 20 25 30
 Lys Ser Ser Pro Val Arg Met Ser Glu Ser Pro Thr Pro Cys Ser Gly
 35 40 45
 Ser Ser Phe Glu Glu Thr Glu Ala Leu Val Asn Thr Ala Ala Lys Asn
 50 55 60
 Gln His Pro Val Pro Arg Gly Leu Ala Pro Asn Gln Glu Ser His Leu
 65 70 75 80
 Gln Val Pro Glu Lys Ser Ser Gln Lys Glu Leu Glu Ala Met Gly Leu
 85 90 95
 Gly Thr Pro Ser Glu Ala Ile Glu Ile Arg Glu Ala Ala His Pro Thr
 100 105 110
 Asp Val Ser Ile Ser Lys Thr Ala Leu Tyr Ser Arg Ile Xaa Thr Xaa
 115 120 125
 Glu Val Glu Lys Pro Ala Gly Leu Leu Phe Gln Gln Pro Asp Leu Asp
 130 135 140
 Ser Ala Leu Gln Ile Ala Arg Ala Glu Ile Ile Thr Lys Glu Arg Glu
 145 150 155 160
 Val Ser Glu Trp Lys Asp Lys Tyr Glu Glu Ser Arg Arg Glu Val Met
 165 170 175
 Glu Met Arg Lys Ile Val Ala Glu Tyr Glu Lys Thr Ile Ala Gln Met
 180 185 190
 Ile Glu Asp Glu Gln Arg Glu Lys Ser Val Ser His Gln Thr Val Gln
 195 200 205
 Gln Leu Val Leu Glu Lys Glu Gln Ala Leu Ala Asp Leu Asn Ser Val
 210 215 220
 Glu Lys Ser Leu Ala Asp Leu Phe Arg Arg Tyr Glu Lys Met Lys Glu
 225 230 235 240
 Val Leu Glu Gly Phe Arg Lys Asn Glu Glu Val Leu Lys Arg Cys Ala
 245 250 255
 Gln Glu Tyr Leu Ser Arg Val Lys Lys Glu Glu Gln Arg Tyr Gln Ala
 260 265 270
 Leu Lys Val His Ala Glu Glu Lys Leu Asp Arg Ala Asn Ala Glu Ile
 275 280 285
 Ala Gln Val Arg Gly Lys Ala Gln Gln Glu Gln Ala Ala His Gln Ala
 290 295 300
 Ser Leu Arg Lys Glu Gln Leu Arg Val Asp Ala Leu Glu Arg Thr Leu
 305 310 315 320
 Glu Gln Lys Asn Lys Glu Ile Glu Glu Leu Thr Lys Ile Cys Asp Glu
 325 330 335
 Leu Ile Ala Lys Met Gly Lys Ser

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340

<210> 182
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 182
 Met Met Leu Gly Leu Phe Ser Pro Leu Cys Leu Val Thr Gly Ile Ala
 1 5 10 15
 Glu Gly Arg Ala Glu Asp Ala Ser Leu His Asp Ile Cys Thr Thr Gln
 20 25 30
 His Thr Leu Thr Phe Thr Pro Ser Tyr Pro Val Gly Gly Ser
 35 40 45

<210> 183
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 183
 Met Gly Val Lys Leu Glu Ile Phe Arg Met Ile Ile Tyr Leu Thr Phe
 1 5 10 15
 Pro Val Ala Met Phe Trp Val Ser Asn Gln Ala Glu Trp Phe Glu Asp
 20 25 30
 Asp Val Ile Gln Arg Lys Arg Glu Leu Trp Pro Pro Glu Lys Leu Gln
 35 40 45
 Glu Ile Glu Glu Phe Lys Glu Arg Leu Arg Lys Arg Arg Glu Glu Lys
 50 55 60
 Leu Leu Arg Asp Ala Gln Gln Asn Ser
 65 70

<210> 184
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 184
 Met Gln Leu Ser Lys Phe Leu Leu Phe Leu Phe Val Tyr Thr Arg Glu
 1 5 10 15
 Asn Pro Thr Ser Ala Cys Val Trp Gly Glu Lys Ser Thr Val
 20 25 30

<210> 185
 <211> 31
 <212> PRT

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<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 185

Met Ile His Val Leu Thr Phe Leu Leu Gln Xaa Tyr Ile Leu Ile Ser
1 5 10 15

Lys Gly Lys Gly Asp Val Ser Gln Phe Val Lys Ser Arg Glu Tyr
20 25 30

<210> 186

<211> 76

<212> PRT

<213> Homo sapiens

<400> 186

Met Phe Phe Leu Leu Ile Leu Cys Trp Leu Leu Cys Leu Ser Leu Ser
1 5 10 15

Gly Leu Tyr Pro Arg Leu Leu Asn Pro Gly Gly Trp Leu Ser Leu Leu
20 25 30

Ser Phe Gln Met Asp Tyr Gly Trp Ile Leu Pro Trp Gly Ala Cys Thr
35 40 45

Val Arg His Gly Lys Pro Gly Met Gly Lys Arg Ser Gly Gly Ser Leu
50 55 60

Pro His Leu Thr Ala Leu Val Leu Cys Leu Thr Ser
65 70 75

<210> 187

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 187

Met Leu Ala Phe Pro Val Leu Leu Glu Val Ser Trp Ser Val Leu Phe
1 5 10 15

Xaa Phe Ser Phe Ser Pro Xaa Pro Ser Ala Pro Gln Pro Pro Thr
20 25 30

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Pro Ser Arg Ser Val Leu His Ala Arg Cys Ser Asn Val Arg Ser Glu
 35 40 45

Met Ala Gly Thr Arg Glu Lys Leu Leu Val Ser Phe Val Ser Gly Ser
 50 55 60

Gly Met Ala Leu Ser Ser Leu Ala Ser Leu Phe Val Leu Phe Glu Leu
 65 70 75 80

Cys Arg Ser Leu Phe Ser Gln Ala Glu Leu Pro Thr Arg Ser Ile Leu
 85 90 95

Asp Gln

<210> 188
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 188
 Met Val Glu Asn Trp Val Leu Glu Glu Ser Pro Gly Arg Leu Leu Ala
 1 5 10 15

Leu Phe Val Val Arg Arg Ala Leu Ala Gln Gly Gln Arg Glu Glu Lys
 20 25 30

Gly Gln Pro Ala Ala Val Glu Ser Ala Gly Trp Leu Pro Thr Arg Phe
 35 40 45

Leu Ser Ser Gln Asp Ser Leu Pro Leu Ser Ser Arg Ile Ser Asn Gly
 50 55 60

Leu
 65

<210> 189
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 189
 Met Ile Lys Lys Asp Lys Tyr His Lys Lys Val Phe Leu Phe Gly Trp
 1 5 10 15

Phe Phe Cys Leu Phe Val Phe Phe Leu Arg Leu Ser Leu Ser Leu Leu
 20 25 30

Pro Lys Leu Glu Cys Asn Leu Gly Ser Leu Gln Pro Pro Pro Arg
 35 40 45

Phe Gln Arg Phe Ser Cys Leu Ser Leu Leu Asn Ser Trp Asp Tyr Arg
 50 55 60

Arg Pro Pro Pro His Leu Ala Asn Phe Cys Val Val Ser Arg Gly Gly
 65 70 75 80

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101

Val Ser Ser Cys Trp Pro Gly Trp Ser Arg Thr Pro Asp Leu Met Ile
85 90 95

Arg Leu Pro Arg Pro Pro Arg Val Leu Gly Leu Gln Ala
100 105

<210> 190

<211> 51

<212> PRT

<213> Homo sapiens

<400> 190

Met Arg Lys Ser Gly Ala Met Lys Lys Gly Gly Ile Phe Ser Ala Glu
1 5 10 15

Phe Leu Lys Val Phe Ile Pro Ser Leu Phe Leu Ser His Val Leu Ala
20 25 30

Leu Gly Leu Gly Ile Tyr Ile Gly Lys Arg Leu Ser Thr Pro Ser Ala
35 40 45

Ser Thr Tyr
50

<210> 191

<211> 80

<212> PRT

<213> Homo sapiens

<400> 191

Met Ala Phe Leu Pro Leu Thr Leu Thr Phe Cys Leu Ala Pro Leu Ala
1 5 10 15

Pro Leu Leu Pro Ser Ile Trp Gly Pro Thr Pro Ala Ser Cys Val Val
20 25 30

Trp Pro Leu Leu Thr Ile Leu Pro Val Pro Ala Gln Ala Ser Pro Ser
35 40 45

Thr Asp Thr Ala His Leu Trp Gln Arg Pro Thr Thr Gly Ser Pro Thr
50 55 60

Arg Leu Val Arg Pro Leu Pro Arg Pro Gly Leu Pro Pro Met Trp Ala
65 70 75 80

<210> 192

<211> 31

<212> PRT

<213> Homo sapiens

<400> 192

Met Ile Thr Leu Cys Ile Phe Leu Leu Phe Lys Val Phe Val Gly Ile

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1	5	10	15
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Ile Leu His Tyr Leu Ile Gly Lys Asn Ile Tyr Val Tyr Ser Val
 20 25 30

<210> 193
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 193
 Met Leu Leu Ser Asn Leu Ser Leu Ser Leu Gln Pro Leu Leu Phe Leu
 1 5 10 15

Phe Ser Phe Phe Phe Cys Lys Met Gly Ser Arg Lys Gly Leu Arg
 20 25 30

His Lys Thr Gln His Phe Ser Ser Met Thr Asp Gln Ile Leu Lys Gly
 35 40 45

Ser Val Arg Ser Pro Ala Leu Gly Gln Leu His Asp
 50 55 60

<210> 194
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 194
 Met Val Cys Phe Gln Ser Asn Lys Pro Ser Thr Ser Thr Trp Arg Gln
 1 5 10 15

Leu Ser Phe Val Phe Val Leu Phe Cys Leu Phe Cys Leu Gly His Ala
 20 25 30

Phe Leu Ser Leu Pro Phe Tyr Ile Leu Ser Ile Ile Ala Met Cys Leu
 35 40 45

Glu Gln Trp Ala Phe His Asn Met Asn Ser Leu Tyr His His Glu Trp
 50 55 60

Glu Val Arg Gly Asn Leu Ile His Val Asp Phe Thr Leu Pro
 65 70 75

<210> 195
 <211> 73
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 195

Met Ser Phe Ser Leu Ala His Val Lys Thr Gly Gln Gly Pro Arg Leu
 1 5 10 15

Thr Glu Ala Leu Gln Tyr Ile Ala Ser Lys Ile Ala Val Gly Val Thr
 20 25 30

Ser Ser Gln Lys Ser Gly Glu Glu Arg Ala Met Xaa Thr Gln Glu Leu
 35 40 45

Leu Met Asp Gln Ala Trp Asp Ser Val Cys His Phe His Gln His Pro
 50 55 60

Thr His Gln Asn Xaa Val Thr Gly Pro
 65 70

<210> 196

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 196

Met Leu Cys Leu Leu Val Leu Thr Gly Leu Xaa Val Leu Ile Val Gly
 1 5 10 15

Ile His Ile Leu Glu Leu Leu Ile Asp Glu Ala Ala Met Pro Arg Gly
 20 25 30

Met Gln Gly Thr Ser Leu Gly Gln Val Ser Phe Ser Lys Leu Gly Ser
 35 40 45

Phe Ala Ser Ser Ala Ser Leu Ser Ala Arg
 50 55

<210> 197

<211> 31

<212> PRT

<213> Homo sapiens

<400> 197

Met Leu Gln Thr Leu Ile Leu Ile Phe Leu Leu Leu Pro Cys Tyr
 1 5 10 15

Leu Glu Leu Leu Cys Phe Ser Leu Ile Ser Ser Ser Ala Lys Thr
 20 25 30

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<210> 198
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 198
 Met Pro Phe Ser Ser Ser Val Lys Cys Leu Phe Gly Val Leu Leu Arg
 1 5 10 15
 Phe Cys Phe Val Val Phe Ser Val Val Val Phe Thr Phe Phe Leu Ser
 20 25 30
 Ile Pro Lys Arg Thr Leu Gly Tyr
 35 40

<210> 199
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 199
 Met Gly Gly Lys Gly Ile Asn Tyr Thr Met Pro His Ile Cys Leu Leu
 1 5 10 15
 Leu Leu Asn Ala Leu Val Val Ser Cys Leu Leu Leu Glu Ala Ile Leu
 20 25 30
 Leu Gln His Leu Val Leu Cys Asn Glu Leu Pro
 35 40

<210> 200
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 200
 Met Phe Met Leu Cys Asn Leu Leu Leu Pro Leu Leu Glu Phe Ile Phe
 1 5 10 15
 Gly Ser Thr Tyr Leu Ser Thr Asp Leu Tyr Leu His Thr Cys Met Lys
 20 25 30
 Asn Val Phe Leu His Ile His Ser Phe
 35 40

<210> 201
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 201
 Met Leu Val Leu Met Thr Thr Cys Ile Leu Ala Ala Val Cys Val His
 1 5 10 15
 Thr Ala Gln Cys Ala Pro Asp Ser Arg Met Asp Asn Asp Cys Pro Ser

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20

25

30

His Gln Ala Gln Ile His Phe Arg Ala Ser Glu Val Arg Arg Gly Trp
 35 40 45

Thr Phe Asn His Asp
 50

<210> 202

<211> 40

<212> PRT

<213> Homo sapiens

<400> 202

Met Gly Pro Ser Gln Arg Glu Val Thr Val Gln Trp His Arg Ala Leu
 1 5 10 15

Phe Leu Leu Pro Leu Leu Leu Leu Ser Thr Arg Thr Glu Thr Lys Asn
 20 25 30

Phe Gly Phe Lys Trp Leu Lys Asp
 35 40

<210> 203

<211> 75

<212> PRT

<213> Homo sapiens

<400> 203

Met Phe Thr Thr Arg Phe Pro Lys Leu Leu Ile Phe Pro Lys Ile Val
 1 5 10 15

Thr Glu Asn Cys Cys Leu Leu Phe Cys Ser Phe Trp Gly Trp Trp Cys
 20 25 30

Trp Leu Gly His Ala Cys Glu Val Met Cys Val Ser Asp Leu Thr Asp
 35 40 45

Ser Leu Phe Ser Leu Leu Ile Glu Arg Ala Leu Phe Thr Leu Phe Ile
 50 55 60

Cys Phe Asp Thr Ser Ala Phe Ser Val Leu Ser
 65 70 75

<210> 204

<211> 104

<212> PRT

<213> Homo sapiens

<400> 204

Met Leu Cys Pro Asn His Gly Leu Phe Pro Asp Pro Gly Phe Gln Cys
 1 5 10 15

Pro Pro Leu Phe Gln Glu Val Gln Arg Asp Ala Pro His Arg Lys Gly
 20 25 30

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Ser Ala Thr Val Leu Pro Arg Cys Pro Pro Trp Val Pro Ser Leu Lys
 35 40 45

His Arg Thr Ser His Thr Ser Ser Pro Ala Val Pro Leu Ile Leu Val
 50 55 60

Pro Arg Leu Pro Ser Leu Gln Leu His Ser Phe Ile Gln His Ser Leu
 65 70 75 80

Gly Asp Phe Tyr Ile Asp Thr Pro Arg Thr Glu Ala Trp Gly Lys Asp
 85 90 95

Asp Gln Glu His Val Pro Ser Arg
 100

<210> 205
 <211> 98
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 205
 Met Leu Pro Leu Tyr Phe Leu Gln Pro Tyr Leu Ser Leu Val Ile Phe
 1 5 10 15

Ile Met Leu Arg Asp Asn Trp His Leu Leu Ala Leu Thr Cys Ser Tyr
 20 25 30

Ser Ile Ile Trp Arg Leu Ser Pro Asp Thr Asn Pro Ser Pro Ile Ala
 35 40 45

Pro Ser Arg His Xaa Gln Leu Xaa Val Val Ala Ile Ala Pro Leu Glu
 50 55 60

Pro Ser Pro His Ser His Met Gln Ser Ile Pro Lys Asn Leu Ala Gln
 65 70 75 80

Phe Ser Ser Ser Gln Met Phe Ser Leu Thr Leu Gln Leu Val Tyr Ile
 85 90 95

Ser Ser

<210> 206
 <211> 74
 <212> PRT
 <213> Homo sapiens

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<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 206
 Met Glu Asn Asp Trp Gly Phe Gln Thr Thr Phe Phe Ser Leu Gly Leu
 1 5 10 15
 Tyr Leu Phe Thr Ile Trp Trp Ser Thr Val Gly Leu Pro Trp Thr Ser
 20 25 30
 Ser Thr Gln Arg Glu Leu Asp Met Lys Leu Glu Ala Ala Leu Glu
 35 40 45
 Gly Lys Xaa Gly Ser Leu Gly Gln Pro Arg Pro Trp Gln Glu Glu Ser
 50 55 60
 Leu Pro Leu Gly Val Leu Asp Gly His Val
 65 70

 <210> 207
 <211> 44
 <212> PRT
 <213> Homo sapiens

 <400> 207
 Met Phe His Val Phe Val Leu Leu Leu Thr Phe Ile Ala Leu Ser Pro
 1 5 10 15
 Ser Gly Ile Arg Leu Leu Phe Gly Phe Ile Gln Lys Gly Leu Asn Leu
 20 25 30
 Asn Ser Phe Met Phe Arg Leu Glu Leu Leu His Phe
 35 40

 <210> 208
 <211> 54
 <212> PRT
 <213> Homo sapiens

 <400> 208
 Met Phe Glu Asp Thr Leu Arg Thr Leu Tyr Ile Leu Leu Phe Tyr Leu
 1 5 10 15
 Arg Tyr Ile Cys Leu Leu Ser Pro His Ile Ala Leu Met Thr Leu Ile
 20 25 30
 Leu Ile Asp Gly Phe Leu Gln Cys Tyr Tyr Cys Ala Leu His Val Pro
 35 40 45
 Cys Ile Ile Ala Phe Leu
 50

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<210> 209
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 209
 Met Lys Ala Leu Val Gly Asn Ser Pro Pro Val Gly Asp Ser Gly Thr
 1 5 10 15
 Gln Pro Pro Ser Ala Leu Arg Leu Cys Leu Leu Lys Val Leu Arg Val
 20 25 30
 Leu Ser Met Tyr Leu Ala Asn Gly Glu Arg Val Trp Arg Thr His Lys
 35 40 45
 Arg Val Xaa His His Val Leu Arg Gly
 50 55

<210> 210
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 210
 Met Pro Glu Asn Leu Val Leu Ile Leu Ala Leu Leu Ser Val Cys
 1 5 10 15
 Gly Leu Lys Gln Val Ile Phe Leu Ser Ala Ser Ile Tyr Ser Lys Met
 20 25 30
 Cys Thr Leu Ile Ala Thr Lys Lys Val Val Ala Lys Thr Arg Asn Asp
 35 40 45
 Ala Tyr Trp Tyr Leu Ile Ser Leu Lys His Ile Val Gly Phe
 50 55 60

<210> 211
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 211
 Met Arg Glu Cys Tyr Phe Leu Gly Asn Phe Leu Leu Val Phe Leu Ile
 1 5 10 15
 Leu Ala Ser Ser Phe Ile Tyr Val Leu Val Thr Gln Val Leu Gly Gly
 20 25 30
 Pro Ala Thr Leu Leu Ala Phe
 35

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<210> 212
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 212
 Met Gln Ser Gly Arg Ser Trp Ala Leu Lys Met Val Leu Leu Cys Asn
 1 5 10 15
 Ser Cys Leu Gly Leu Gly Val Gly Ser Val Gly Pro Ser Met Ser Ser
 20 25 30
 Leu Phe Gly Ala Val Leu Ser Glu Thr Pro Gly Ser Ser Val Tyr
 35 40 45

<210> 213
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 213
 Met Ser Glu Leu Ser Ala Phe Met Phe Ser Thr Ile Ile Phe Leu Met
 1 5 10 15
 Ala Gln Pro Thr Ser Cys Phe
 20

<210> 214
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 214
 Met Met Phe Cys Phe Leu Ile Trp Val Val Val Thr Phe Thr Tyr Ser
 1 5 10 15
 Leu Asn Cys Thr Phe Val Leu His Lys Phe Ile Ile Phe Pro Asn Phe
 20 25 30
 Lys Lys Val Lys Arg Arg Arg Lys Lys Leu Val Met Lys Val
 35 40 45

<210> 215
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 215
 Met Ile Leu Val Ser Lys Leu Phe Phe Gly Phe Ser Leu Met Phe Leu
 1 5 10 15
 Ile Phe Phe Pro Leu Ala Thr Met Thr Val His Val Leu Ile Asn Ile
 20 25 30

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Gly Arg Ser Arg Tyr Lys
35

<210> 216
<211> 31
<212> PRT
<213> Homo sapiens

<400> 216
Met Tyr Ile Leu Ser Leu Ser Cys Ser Ile Phe Phe Ser Phe Phe Phe
1 5 10 15
Phe Leu Phe Pro Phe Phe Arg Gly Leu Arg Lys Gly Gln Ala Lys
20 25 30

<210> 217
<211> 45
<212> PRT
<213> Homo sapiens

<400> 217
Met Ser Asn Leu Met Val Ala Met Ile Ala Val Ile Thr Ile Ala Val
1 5 10 15
Ser Ile Pro Ser Thr Arg Ala Asp Thr Glu Ile Ser Tyr Thr Tyr Trp
20 25 30
Ala Tyr Leu Ser Ile Leu Ala Gly Asn Asn Ala Trp Ile
35 40 45

<210> 218
<211> 24
<212> PRT
<213> Homo sapiens

<400> 218
Met Ile Met Glu Glu Ile Phe Leu Asn Leu Ile Lys Asn Ile Tyr Lys
1 5 10 15
Ser Pro Tyr Ser Gln Cys Asn Thr
20

<210> 219
<211> 22
<212> PRT
<213> Homo sapiens

<400> 219
Met Val Ile Phe Ile Ile Leu Leu Thr Cys Phe Gly Phe Ser Asn Gly
1 5 10 15
Ser Phe Ser Phe Ser Leu
20

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<210> 220
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 220
 Met Ser Pro Gly Arg Val Ser Val Val Ser Leu Gln Gly Ser Gln Leu
 1 5 10 15
 Cys Leu Leu Val Ser Ile Ala Ile Met Gly Leu Leu Leu Phe
 20 25 30

<210> 221
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 221
 Met Ser Gly Leu Glu Ser Ala Arg Val Leu Leu Cys Ala Leu Gly Ser
 1 5 10 15
 Phe Leu Leu Asn Ser Leu Leu Ser Thr Phe Arg Leu Asn Ser Ser Ala
 20 25 30
 Pro Ser

<210> 222
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 222
 Met His Ser Ile Ile Val Lys Glu Leu Ile Val Thr Phe Phe Leu Gly
 1 5 10 15
 Ile Thr Val Leu Leu Leu Met Gln Arg Ser Leu
 20 25

<210> 223
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 223
 Met Lys Ser Val Ile Phe Ile Gln Ser Val Ile Leu Phe Phe Leu Pro
 1 5 10 15
 Met Ser Gly Asp His Gln Gly Ile Ser Gly Leu Asp Glu Leu Pro Gln
 20 25 30
 Ala

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<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids
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<210> 225
<211> 28
<212> PRT
<213> Homo sapiens
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<210> 226
<211> 59
<212> PRT
<213> Homo sapiens
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<400> 226
Met Val Val Val Ser Thr Asn Gly Phe Leu Leu Leu Leu Leu Leu
1 5 10 15
Asn Arg Lys Ser Gly Leu Cys Ser Tyr Arg Lys Ala Val His Arg Leu
20 25 30

Ser Ser Cys Pro Ser Arg His Gln Ala Gly Pro Arg Ile Lys Cys Asp
 35 40 45

Phe Lys Trp Gly Lys Leu Cys Tyr Ser Cys Ala
 50 55

<210> 227

<211> 67

<212> PRT

<213> Homo sapiens

<400> 227

Met Pro Val Tyr Asp Phe Asn Trp Trp Tyr Ser Leu Tyr Phe Ile Ile
 1 5 10 15

Tyr Ile Ile Ile Asn Thr Tyr Ile Phe Lys Ser Val Phe Leu Ala Met
 20 25 30

Val Tyr Ser Asn Tyr Arg Lys His Phe His Ile Leu Cys Val Cys Val
 35 40 45

Cys Val Phe Cys Ser Asp Glu Gln Asn Leu Leu Phe Thr Gln Phe Tyr
 50 55 60

Tyr Leu Ser
 65

<210> 228

<211> 31

<212> PRT

<213> Homo sapiens

<400> 228

Met Pro Pro Pro Glu Cys Leu Ser Asp Cys Ser Lys Val Ala Leu Val
 1 5 10 15

Met Val Leu Phe Leu Phe Leu His Gln Ser Ser Cys Trp Ala Ala
 20 25 30

<210> 229

<211> 35

<212> PRT

<213> Homo sapiens

<400> 229

Met Ala Ser Ser Val Thr Val Lys Glu Val Cys Val Leu Phe Asn Leu
 1 5 10 15

Leu Ile Ile Ile Thr Ala Met Val Tyr His Ser Phe Thr Lys Tyr Gln
 20 25 30

Thr Leu Phe
 35

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<210> 230
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 230
 Met Ile Phe Leu Phe Phe Ile Leu Phe Glu Ile Ile Val Thr Leu Trp
 1 5 10 15
 Leu Thr Pro Thr Tyr Pro Gln Ala Phe Ser Glu Leu Thr Ile Gln Ile
 20 25 30
 Thr Ala Pro Phe Gly Ser Leu Pro Gln Gln Leu Tyr Leu His Met Ser
 35 40 45
 Ile Ile
 50

<210> 231
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 231
 Met Gln Leu Leu Cys Ser Pro Tyr Pro Glu Glu Lys Pro Lys Gly Ser
 1 5 10 15
 Asn Arg Asn Phe Cys Asn Trp Phe Leu Ser Glu Arg Ser Ser Cys Leu
 20 25 30
 Gln Met Leu Leu Lys Gly His Lys Lys Leu Glu Leu Lys Ile Asp
 35 40 45
 Glu Ser Ala Gly Val
 50

<210> 232
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 232
 Met His Ile Thr Ser Leu Val Gly Ala Gly Thr Leu Met Val Leu Leu
 1 5 10 15
 Leu Leu Ile Leu Leu Leu Glu Cys Phe Phe Val Ala Glu Ala Leu Val
 20 25 30
 Met Arg Ser
 35

<210> 233
 <211> 33
 <212> PRT

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<213> Homo sapiens

<400> 233

Met Phe Phe Val Leu Leu Cys Phe Trp Leu Phe Pro Phe Ser Lys Asn
1 5 10 15

Ser Pro Leu Trp Gly Met Leu Arg Ser Ser Phe Phe Ile Ser Ile Asn
20 25 30

Leu

<210> 234

<211> 25

<212> PRT

<213> Homo sapiens

<400> 234

Met Ser Leu Ile Leu Leu Ser Val Thr Leu Leu His Leu Ser Phe
1 5 10 15

Ser Val Gly Phe Phe Leu Phe Arg Leu
20 25

<210> 235

<211> 58

<212> PRT

<213> Homo sapiens

<400> 235

Met Ser Ser Phe Leu Arg Val Ile Phe Ile Pro Asn Ile Lys Val Ile
1 5 10 15

Phe Leu Pro Pro Gly Thr Thr Ser Leu Ile His Thr Met Asp Gln Gly
20 25 30

Val Ile Ala Ala Phe Lys Phe Tyr Tyr Leu Arg Arg Glu Asp Phe Cys
35 40 45

Pro Val Pro Tyr Cys Ser Gly Gly Arg His
50 55

<210> 236

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 236

Met Lys Pro Thr Leu Ser Lys Phe Leu Gly Thr Asp Ala Glu Leu Pro
1 5 10 15

Lys Leu Tyr Pro Pro Ser Leu Gln Ala Pro Arg Gly Glu Thr Gln Leu
20 25 30

Leu Gly Pro Gly Leu Glu Arg Pro Thr Arg Glu Gly Arg Val Glu Gln
35 40 45

Met Leu Phe Asn Gln Lys Ser Val Ser Trp Gly Ser Gln Leu Pro Gln
50 55 60

Ser Xaa Asn Thr Phe Leu Lys Asn Xaa Asp Pro
65 70 75

<210> 237

<211> 42

<212> PRT

<213> Homo sapiens

<400> 237

Met His Ala Leu Ser Tyr Thr His Leu Ser Leu Leu Ser Leu Phe Leu
1 5 10 15

Phe Leu Pro Pro Ser Phe Leu Tyr Tyr Asn Leu Val Ile Leu Phe Phe
20 25 30

Glu Ala Phe Gln Asn Ile Ser His Leu Ser
35 40

<210> 238

<211> 40

<212> PRT

<213> Homo sapiens

<400> 238

Met Trp Val Gln Leu Ile Phe Phe Phe Val Gln Tyr Gly Asp Ser Leu
1 5 10 15

Thr Ser Ala Phe Phe Pro Phe Ser Ser Asn Phe Ser Leu Gln Asn Ser
20 25 30

Gly Phe Ser Met His Lys Leu Lys
35 40

<210> 239

<211> 38

<212> PRT

<213> Homo sapiens

<400> 239

Met Thr Ser Leu Pro Ile Leu Ala Phe Gly Ala Val Tyr Trp Pro Asp

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117
1 5 10 15
Leu Ala Ser His Ser Phe Ser Pro Ser Arg Ser Leu Ala Gln Thr Pro
20 25 30
His Met Ser Val Ser Gly
35
<210> 240
<211> 47
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 240
Met Thr Pro Trp Leu Leu Ile Leu Val Ser Xaa Gly Phe Leu Lys Ser
1 5 10 15
Ile Ser Asp Pro Gln Phe Gln Glu Leu Ser Ile Asn Ile Ala Ser Cys
20 25 30
His Pro Gly Thr Val Met Pro Tyr Ser Gly Thr Ser His Leu Lys
35 40 45
<210> 241
<211> 36
<212> PRT
<213> Homo sapiens
<400> 241
Met Thr Gly Thr Pro Ala Trp Ala His Leu Leu Leu Leu Leu Leu
1 5 10 15
Gly Ser Ala Pro Gln Thr Arg Leu Trp Pro Pro Ser Gln Cys Pro Val
20 25 30
Thr Ser Pro Glu
35
<210> 242
<211> 54
<212> PRT
<213> Homo sapiens
<400> 242
Met Val Leu Gln Asn Thr Asn Thr Leu Leu Ile Val Ser Ala Phe Leu
1 5 10 15
Leu Ser Met Leu Phe Phe Lys Phe Ser Ile Ala Ile Phe Leu Val Thr
20 25 30

Asn Leu Ser Phe Glu Arg Ser Asn Leu Leu Leu Gly Pro Ser Ser Asp
 35 40 45

Leu Phe Leu Asn Phe Lys
 50

<210> 243

<211> 36

<212> PRT

<213> Homo sapiens

<400> 243

Met Tyr Glu Val Asp Lys Lys Ile Tyr Ser Asn Phe Ile Gln Ile Leu
 1 5 10 15

Ile Val Ile Ile Phe Val Leu Tyr Leu Ile Ile Asn Gln Asn Thr Phe
 20 25 30

Ala Phe Leu Ser
 35

<210> 244

<211> 42

<212> PRT

<213> Homo sapiens

<400> 244

Met Cys Ile Leu Pro Leu Met Leu Thr Tyr Pro Ile Leu Pro Lys Val
 1 5 10 15

Val Gly Asn Asn Ile Leu Leu Gly Asp Ser Gly Leu Thr Ser Leu Val
 20 25 30

Ile Pro Leu Ser Val Val Phe Asn Leu Lys
 35 40

<210> 245

<211> 23

<212> PRT

<213> Homo sapiens

<400> 245

Met Asn Phe Leu Leu Leu Ile Phe Pro Tyr Phe Ser Ser Leu Leu Gly
 1 5 10 15

Glu Val Glu Val Val Lys Cys
 20

<210> 246

<211> 66

<212> PRT

<213> Homo sapiens

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<220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 246
 Met Thr Trp Lys Gly Trp Ser Arg Thr Arg Ile Trp Lys Pro Ser Leu
 1 5 10 15
 Pro Gln Leu Phe Thr Met Tyr Leu Leu Ala Gln Ile Arg Ala Ala Ser
 20 25 30
 Arg Ala Ser Glu Asp Ser Cys Ser Tyr Ser Ser Asp Thr Met Trp Pro
 35 40 45
 Gln Ser Gly Asn Ser Ser Thr Phe Ala Phe Phe Arg Pro Arg Xaa Lys
 50 55 60
 Met Arg
 65

 <210> 247
 <211> 53
 <212> PRT
 <213> Homo sapiens

 <400> 247
 Met Trp His Leu Ser Phe His Cys Leu Leu Leu Leu Pro Leu Cys
 1 5 10 15
 Glu Val Thr His Ser Leu Phe Ala Phe Tyr His Asn Trp Lys Leu Phe
 20 25 30
 Glu Ala Ser Leu Glu Thr Glu Ala Ala Met Leu Pro Val Gln Pro Ala
 35 40 45
 Glu Pro Arg Ala Asn
 50

 <210> 248
 <211> 31
 <212> PRT
 <213> Homo sapiens

 <400> 248
 Met Val Ser Leu Asn Leu Ser Leu Pro Asn Asn Ile Ile Ser Leu Val
 1 5 10 15
 Phe Phe Phe Leu Leu Gln Pro Val Gln Lys Gly Val Ser Gly Gly
 20 25 30

 <210> 249
 <211> 36
 <212> PRT
 <213> Homo sapiens

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<400> 249

Met Leu Thr Trp Leu Asp Leu Asp Leu Leu Phe Cys Phe Leu Phe Leu
 1 5 10 15

Phe Leu Phe Ile Leu Phe Tyr Phe Leu Gln Leu Asn Glu Phe Trp Gly
 20 25 30

Gly Asn Pro Phe
 35

<210> 250

<211> 42

<212> PRT

<213> Homo sapiens

<400> 250

Met Arg Lys Glu Glu Gly Ile Ala His Leu Ser Ile Ala Phe Phe Val
 1 5 10 15

Gln Val Leu Cys Leu Tyr Gln Leu Leu Pro Val Ile Leu Pro Gln Phe
 20 25 30

Asn Leu Gly Ser Gly Lys Asn Met Asn Arg
 35 40

<210> 251

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 251

Met Phe Val Leu Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly
 1 5 10 15

Gln Pro Arg Gly Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr
 20 25 30

Ile Cys Ser Ile Pro Gly Leu Pro Gly Pro Pro Gly Pro Gly Ala
 35 40 45

Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp
 50 55 60

Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly
 65 70 75 80

Leu Arg Gly Lys Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp
 85 90 95

Gln Gly Glu Thr Gly Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys
 100 105 110

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Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Xaa
 115 120 125

<210> 252
 <211> 142
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (136)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (138)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 252
 Met Cys Ala Phe Pro Trp Leu Leu Leu Leu Leu Gln Glu Gly
 1 5 10 15
 Ser Gln Arg Arg Leu Trp Arg Trp Cys Gly Ser Glu Glu Val Val Ala
 20 25 30
 Val Leu Gln Glu Ser Ile Ser Leu Pro Leu Glu Ile Pro Asp Glu
 35 40 45
 Glu Val Glu Asn Ile Ile Trp Ser Ser His Lys Ser Leu Ala Thr Val
 50 55 60
 Val Pro Gly Lys Glu Gly His Pro Ala Thr Ile Met Val Thr Asn Pro
 65 70 75 80
 His Tyr Gln Gly Gln Val Ser Phe Leu Asp Pro Xaa Tyr Ser Leu His
 85 90 95
 Ile Ser Asn Leu Ser Trp Glu Asp Ser Gly Leu Tyr Gln Ala Gln Val
 100 105 110
 Asn Leu Arg Thr Ser Gln Ile Ser Thr Met Gln Gln Tyr Asn Leu Cys
 115 120 125
 Val Tyr Arg Trp Leu Ser Glu Xaa Pro Xaa His Cys Glu Leu
 130 135 140

<210> 253
 <211> 222
 <212> PRT
 <213> Homo sapiens

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<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 253
 Met His Phe Gln Arg Gln Lys Leu Met Ala Val Thr Glu Tyr Ile Pro
 1 5 10 15
 Pro Lys Pro Ala Ile His Pro Ser Cys Leu Pro Ser Pro Pro Ser Pro
 20 25 30
 Pro Gln Glu Glu Ile Gly Leu Ile Arg Leu Leu Arg Arg Glu Ile Ala
 35 40 45
 Ala Val Phe Gln Asp Asn Arg Met Ile Ala Val Cys Gln Asn Val Ala
 50 55 60
 Leu Ser Ala Glu Asp Lys Leu Leu Met Arg His Gln Leu Arg Lys His
 65 70 75 80
 Lys Ile Leu Met Lys Xaa Phe Pro Asn Gln Val Leu Lys Pro Phe Leu
 85 90 95
 Glu Asp Ser Lys Tyr Gln Asn Leu Leu Pro Leu Phe Val Gly His Asn
 100 105 110
 Met Leu Leu Val Ser Glu Glu Pro Lys Val Lys Glu Met Val Arg Ile
 115 120 125
 Leu Arg Thr Val Pro Phe Leu Pro Leu Leu Gly Gly Cys Ile Asp Asp
 130 135 140
 Thr Ile Leu Ser Arg Gln Gly Phe Ile Asn Tyr Ser Lys Leu Pro Ser
 145 150 155 160
 Leu Pro Leu Val Gln Gly Glu Leu Val Gly Gly Leu Thr Cys Leu Thr
 165 170 175
 Ala Gln Thr His Ser Leu Leu Gln His Gln Pro Leu Gln Leu Thr Thr
 180 185 190
 Leu Leu Asp Gln Tyr Ile Arg Glu Gln Arg Glu Lys Asp Ser Val Met
 195 200 205
 Ser Ala Asn Gly Lys Pro Asp Pro Asp Thr Val Pro Asp Ser
 210 215 220

<210> 254
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 254
 Met Met Asn Ile Leu Leu Leu Lys Tyr Ile Leu Glu Ile Leu Ile Leu
 1 5 10 15
 Ser Glu Asn Leu Asn Leu Phe Asn Ile Thr Tyr Gly Lys Tyr Asn Leu
 20 25 30

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Phe Phe Leu Tyr Arg Tyr
35

<210> 255
<211> 32
<212> PRT
<213> Homo sapiens

<400> 255
Met Gln Arg Met Leu Val Leu Leu Phe Phe Phe Ser Leu Leu Ala
1 5 10 15
Ile Asn Pro Ala Glu Thr Ile Cys Gly Tyr Gly Ser Thr Trp Lys Phe
20 25 30

<210> 256
<211> 52
<212> PRT
<213> Homo sapiens

<400> 256
Met Pro Ser Leu Asn Leu Val Leu Arg Pro Leu Ile Cys Leu Ala Ser
1 5 10 15
Ile Thr Ser Phe Leu Ile Phe Phe Pro Leu Leu Thr Leu Ile Leu Cys
20 25 30
Ser Pro Asn Ser Pro Pro Phe Pro Leu Pro Ala His Pro Glu Arg His
35 40 45
Thr His Thr Gln
50

<210> 257
<211> 148
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 257
Met Arg Lys Ile Ala Gln Cys Ala Pro Gly Val Val Glu Leu Val Leu
1 5 10 15

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Ile Pro Leu Arg Gln Arg Leu Glu Glu Arg Gln Arg Arg Arg Lys Gln
20 25 30

Gly Ala Gly Ser Leu Gln Glu Leu Ala Pro Gln Asp Gly Ser Gly Tyr
35 40 45

Met Asp Val Gly Val Ser Gln Lys Ala Arg Gly Glu Xaa Val Pro Asp
50 55 60

Pro Gln Gly Gly Gly Gln Leu Ser Trp Asp Arg Pro Pro Ala Pro Arg
65 70 75 80

Pro Pro Ala Tyr Asn Arg Ala Leu Gln Gly Asp Pro Ser Phe Val Leu
85 90 95

Gln Ile Ala Glu Lys Glu Gln Glu Leu Leu Ala Ser Gln Glu Thr Val
100 105 110

Gln Val Leu Gln Met Lys Val Arg Arg Leu Glu His Leu Leu Gln Leu
115 120 125

Lys Asn Val Arg Ile Glu Asn Leu Ser Arg Arg Leu Gln Xaa Ala Glu
130 135 140

Arg Lys Gln Arg
145

<210> 258

<211> 50

<212> PRT

<213> Homo sapiens

<400> 258

Met Ser Ile Thr Ser Asn Thr Tyr Phe Phe Leu Leu Gly Ala Phe Lys
1 5 10 15

Ile Leu Ser Ser Ser Tyr Trp Lys Ile His Thr Lys Leu Leu Leu Thr
20 25 30

Ile Val Pro Leu Gln Cys Cys Gly Met Pro Gln Leu Ile Pro Pro Leu
35 40 45

Gln Leu
50

<210> 259

<211> 46

<212> PRT

<213> Homo sapiens

<400> 259

Met Tyr Ile Phe His Phe Val Phe Leu Ile Gly Tyr Ala Met Cys Gly
1 5 10 15

Ile Gln Val Thr Asn Val Thr Leu Ala Ser Gly Pro Ser Asn Leu His
20 25 30

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Val Tyr Leu Leu Gln Ser Tyr Leu Thr Arg Gly Pro Asn His
 35 40 45

<210> 260
 <211> 79
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 260
 Met Arg Val Phe Ala Leu Leu Pro Pro Phe His Lys Ser Thr Val Leu
 1 5 10 15

 Ser Phe Leu Leu Phe Phe Leu Ser Phe Phe Phe Arg Gln Gly Leu
 20 25 30

 Ala Val Ser Xaa Arg Leu Glu Cys Ser Gly Ala Ile Ile Ala His Cys
 35 40 45

 Ser Leu Asp Leu Leu Asp Ser Ser Asn Pro Pro Ala Leu Thr Ser Gln
 50 55 60

 Leu Leu Arg Arg Pro Arg Gln Glu Asp His Leu Ser Pro Gly Gly
 65 70 75

<210> 261
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 261
 Met Ser Gln Leu Phe Leu Ile Met Leu Thr Phe Ile Phe Leu Asn Asn
 1 5 10 15

 Met Phe Ile Met His Leu Thr Ser Phe His Gly Lys Arg Val Phe Gly
 20 25 30

 Phe Leu Asn Gln Ser Ser His Met His Ala Phe Pro Leu Pro Arg Trp
 35 40 45

 Thr Thr Ser Ile Phe Ser Val Ser Ile Phe Ile Asn Arg
 50 55 60

<210> 262
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 262
 Met Ala Tyr Ala Phe His Arg Thr Ser Thr

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126
1 5 10

<210> 263
<211> 15
<212> PRT
<213> Homo sapiens

<400> 263
Met Ser His Cys Ala Trp Leu His Leu Gln Leu Phe Leu Ser Leu
1 5 10 15

<210> 264
<211> 20
<212> PRT
<213> Homo sapiens

<400> 264
Met Lys Phe Ile Met Leu Leu Leu Leu Pro Ser Ile Phe Pro Thr Thr
1 5 10 15

Val Glu Met Ile
20

<210> 265
<211> 51
<212> PRT
<213> Homo sapiens

<400> 265
Met Ala Val Pro Ser Gly Cys Trp Pro Ser Trp Pro Arg Pro Ser Ser
1 5 10 15

Trp Trp Ser Thr Arg Ile Ser Pro Arg Ser Ala Thr Pro Leu Thr Ala
20 25 30

Ser Thr Trp Ser Leu Val Thr Cys Ser Ser Gln Val Ser Ala Cys Gly
35 40 45

Thr Ser Ile
50

<210> 266
<211> 61
<212> PRT
<213> Homo sapiens

<400> 266
Met Ser Asn Leu Gln Phe His Leu Leu Pro His Ser Ser Pro Ile Leu
1 5 10 15

Pro Leu Phe Thr Leu Ala Leu Leu Lys Met Gln Ile Pro Gly Leu Arg
20 25 30

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Leu Ser His Cys Leu Leu Thr Tyr Asn Ser Tyr Thr Arg Thr Pro Phe
35 40 45

Leu Leu Pro Ser Ser Glu Ser Tyr Leu Val Phe Glu Ile
50 55 60

<210> 267

<211> 209

<212> PRT

<213> Homo sapiens

<400> 267

Met Cys Pro Leu Trp Arg Leu Leu Ile Phe Leu Gly Leu Leu Ala Leu
1 5 10 15

Pro Leu Ala Pro His Lys Gln Pro Trp Pro Gly Leu Ala Gln Ala His
20 25 30

Arg Asp Asn Lys Ser Thr Leu Ala Arg Ile Ile Ala Gln Gly Leu Ile
35 40 45

Lys His Asn Ala Glu Ser Arg Ile Gln Asn Ile His Phe Gly Asp Arg
50 55 60

Leu Asn Ala Ser Ala Gln Val Ala Pro Gly Leu Val Gly Trp Leu Ile
65 70 75 80

Ser Gly Arg Lys His Gln Gln Gln Gln Glu Ser Ser Ile Asn Ile Thr
85 90 95

Asn Ile Gln Leu Asp Cys Gly Gly Ile Gln Ile Ser Phe His Lys Glu
100 105 110

Trp Phe Ser Ala Asn Ile Ser Leu Glu Phe Asp Leu Glu Leu Arg Pro
115 120 125

Ser Phe Asp Asn Asn Ile Ile Lys Met Cys Ala His Met Ser Ile Val
130 135 140

Val Glu Phe Trp Leu Glu Lys Asp Glu Phe Gly Arg Arg Asp Leu Val
145 150 155 160

Ile Gly Lys Cys Asp Ala Glu Pro Ser Ser Val His Val Ala Ile Leu
165 170 175

Thr Glu Ala Ile Pro Pro Lys Met Asn Gln Phe Leu Tyr Asn Leu Lys
180 185 190

Glu Asn Leu Gln Lys Val Leu Pro His Met Val Glu Ser Gln Pro Leu
195 200 205

Ala

<210> 268

<211> 74

<212> PRT

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<213> Homo sapiens

<400> 268

Met Gly His Leu Phe Val Val Cys Leu Leu Ser Ser Trp Trp Thr Phe
 1 5 10 15

Arg Pro Phe Ala Leu Ala Val Thr Val Asn His Val Ala Val Asn Ile
 20 25 30

Val Cys Val Ser Ala Trp Thr Cys Val Ser Cys Ser Leu Gly Arg Ser
 35 40 45

Cys Gly Leu Glu Gly Ser Phe Leu Phe Pro Leu Glu Thr Leu Trp Phe
 50 55 60

Pro His Met Val Val Leu Cys Leu Thr Phe
 65 70

<210> 269

<211> 34

<212> PRT

<213> Homo sapiens

<400> 269

Met Gly Trp Gly Lys Glu Val Val Ser Leu Ile Val Leu Leu Val Asn
 1 5 10 15

Leu Phe Leu Cys Pro Trp Ala Leu Gly Leu Cys Leu Leu Ser Val Ser
 20 25 30

Ser Leu

<210> 270

<211> 58

<212> PRT

<213> Homo sapiens

<400> 270

Met Glu Pro Trp Ser Trp Phe Phe Phe Phe Phe Phe Phe Pro Gln
 1 5 10 15

Arg Thr Cys Gly Cys Ala Leu Cys Val Leu Phe Leu Phe Ser Ile Trp
 20 25 30

Gly Pro His Gly Lys Glu Leu Leu Asn Ser Phe Leu Tyr Glu Leu Pro
 35 40 45

Leu Cys Ser Tyr Lys Gly Pro Phe Leu Ser
 50 55

<210> 271

<211> 96

<212> PRT

<213> Homo sapiens

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<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 271
 Met Cys Phe Ile Leu Val Val Cys Phe Ala Ser Leu Ile Thr Glu Cys
 1 5 10 15
 Pro Cys His Cys Lys Cys Cys Arg Asp Val Gly Arg Gly Xaa Thr Val
 20 25 30
 Leu Tyr Xaa Cys Ser Met Val Gln Asn Lys Leu Leu Thr Gln Val Ser
 35 40 45
 Leu Val Arg Asn Leu Trp Ala Met Glu Val Arg His Pro Ser Cys Xaa
 50 55 60
 Ser Ile Gly Lys Lys Cys Phe Gln Ile Leu Trp Lys Gly Gly His Gly
 65 70 75 80
 Ala Gly Xaa Trp Arg Val Ala Phe Glu Gln Ser Asp Pro Ile Ser Val
 85 90 95

<210> 272
 <211> 405
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (273)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 272
 Met Leu Leu Leu Trp Val Ser Val Val Ala Ala Leu Ala Leu Val
 1 5 10 15
 Leu Ala Pro Gly Ala Gly Glu Gln Arg Arg Arg Ala Ala Lys Ala Pro
 20 25 30

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Asn Val Val Leu Val Val Ser Asp Ser Tyr Asp Gly Arg Leu Thr Phe
 35 40 45
 His Pro Gly Ser Gln Val Val Lys Leu Pro Phe Ile Asn Phe Met Lys
 50 55 60
 Thr Arg Gly Thr Ser Phe Leu Asn Ala Tyr Thr Asn Ser Pro Ile Cys
 65 70 75 80
 Cys Pro Ser Arg Ala Ala Met Trp Ser Gly Leu Phe Thr His Leu Thr
 85 90 95
 Glu Ser Trp Asn Asn Phe Lys Gly Leu Asp Pro Asn Tyr Thr Thr Trp
 100 105 110
 Met Asp Val Met Glu Arg His Gly Tyr Arg Thr Gln Lys Phe Gly Lys
 115 120 125
 Leu Asp Tyr Thr Ser Gly His His Ser Ile Ser Asn Arg Val Glu Ala
 130 135 140
 Trp Thr Arg Asp Val Ala Phe Leu Leu Arg Gln Glu Gly Arg Pro Met
 145 150 155 160
 Val Asn Leu Ile Arg Asn Arg Thr Lys Val Arg Val Met Glu Arg Asp
 165 170 175
 Trp Gln Asn Thr Asp Lys Ala Val Asn Trp Leu Arg Lys Glu Ala Ile
 180 185 190
 Asn Tyr Thr Glu Pro Phe Val Ile Tyr Leu Gly Leu Asn Leu Pro His
 195 200 205
 Pro Tyr Pro Ser Pro Ser Ser Gly Glu Asn Phe Gly Ser Ser Thr Phe
 210 215 220
 His Thr Ser Leu Tyr Trp Leu Glu Lys Val Ser His Asp Ala Ile Lys
 225 230 235 240
 Ile Pro Lys Trp Ser Pro Leu Ser Glu Met His Pro Val Asp Tyr Tyr
 245 250 255
 Ser Ser Tyr Thr Lys Asn Cys Thr Gly Arg Phe Thr Lys Lys Glu Ile
 260 265 270
 Xaa Asn Ile Arg Ala Phe Tyr Tyr Ala Met Cys Ala Glu Thr Asp Ala
 275 280 285
 Met Leu Gly Glu Ile Ile Leu Ala Leu His Gln Leu Asp Leu Leu Gln
 290 295 300
 Lys Thr Ile Val Ile Tyr Ser Ser Asp His Gly Glu Leu Ala Met Glu
 305 310 315 320
 His Arg Gln Phe Tyr Lys Met Ser Met Tyr Glu Ala Ser Ala His Val
 325 330 335
 Pro Leu Leu Met Met Gly Pro Gly Ile Lys Ala Gly Leu Gln Val Ser
 340 345 350

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Asn Val Val Ser Leu Val Asp Ile Tyr Pro Thr Met Leu Asp Ile Ala
 355 360 365

Gly Ile Pro Leu Pro Gln Asn Leu Ser Gly Tyr Ser Ser Leu Pro Leu
 370 375 380

Ser Ser Glu Thr Phe Lys Asn Glu His Lys Val Lys Asn Leu His Pro
 385 390 395 400

Pro Trp Ile Thr Glu
 405

<210> 273
 <211> 80
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 273
 Met Phe Leu Thr Ile Ile Val Cys Gly Met Val Ala Ala Leu Ser Ala
 1 5 10 15

Ile Arg Ala Asn Cys His Gln Glu Pro Ser Val Cys Leu Gln Ala Ala
 20 25 30

Cys Pro Glu Ser Trp Ile Gly Phe Gln Arg Lys Cys Phe Tyr Phe Ser
 35 40 45

Asp Asp Thr Lys Asn Trp Thr Ser Ser Gln Arg Phe Cys Asp Ser Gln
 50 55 60

Asp Ala Asp Leu Ala Gln Val Glu Xaa Phe Gln Glu Leu Xaa Arg Lys
 65 70 75 80

<210> 274
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 274
 Ala Ser Ser Leu Leu Val Ser Leu Gln Cys Leu Leu Gln Leu
 1 5 10

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<210> 275
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 275
 Met Leu Pro Ile His Leu Gln Trp Ala Cys Ala Phe Arg Ser Phe Leu
 1 5 10 15
 Leu Gly Ile Asp Ser Ser Met Phe Val Leu Phe Gln His Pro Arg Leu
 20 25 30
 Lys Asp Thr Lys Ser Ser Arg Val Ile Glu Pro Thr Leu Thr Asn
 35 40 45

<210> 276
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 276
 Met Ile Val Ile Thr Ser Ile Leu Ser Ser Leu Ala Ser Leu Leu Leu
 1 5 10 15
 Leu Ala Phe Leu Ala Ala Ser Thr Ala Arg Leu Ser Pro Gln Ser Leu
 20 25 30
 Pro Glu Thr
 35

<210> 277
 <211> 281
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (199)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (227)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (276)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 277
 Met Gly Phe Pro Gln Arg Gln Pro Gly Leu Ser Gly Leu Leu Leu Leu

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133

1		5		10		15									
Val	Trp	Ala	Leu	Ala	Trp	Pro	Leu	Pro	Cys	Met	Ser	Leu	Glu	Leu	Ile
		20					25						30		
Pro	Tyr	Thr	Pro	Gln	Ile	Thr	Ala	Trp	Asp	Leu	Glu	Gly	Lys	Val	Thr
		35					40					45			
Ala	Thr	Thr	Phe	Ser	Leu	Glu	Gln	Pro	Arg	Cys	Val	Leu	Asp	Gly	Leu
		50				55					60				
Xaa	Gly	Val	Ala	Ser	Thr	Ile	Trp	Leu	Val	Val	Ala	Phe	Ser	Asn	Ala
	65				70				75					80	
Ser	Arg	Asp	Phe	Gln	Asn	Pro	Gln	Thr	Arg	Ala	Glu	Ile	Pro	Ala	Phe
			85						90					95	
Pro	Arg	Leu	Leu	Thr	Glu	Gly	His	Tyr	Met	Thr	Leu	Pro	Leu	Ser	Leu
			100					105					110		
Asp	Gln	Leu	Pro	Cys	Gln	Asp	Pro	Ala	Gly	Gly	Gly	Arg	Asp	Val	Pro
		115					120					125			
Leu	Leu	Arg	Val	Gly	Asn	Asp	Pro	Gly	Cys	Leu	Ala	Asp	Leu	Leu	Gln
	130				135						140				
Pro	Pro	Tyr	Cys	Asn	Ser	Pro	Leu	Pro	Ser	Pro	Gly	Pro	Tyr	Arg	Val
	145				150				155					160	
Lys	Phe	Leu	Leu	Met	Asp	Ala	Arg	Gly	Ser	Pro	Gln	Ala	Glu	Thr	Arg
			165					170					175		
Trp	Ser	Asp	Pro	Ile	Ala	Leu	His	Gln	Gly	Lys	Ser	Pro	Ala	Ser	Ile
			180					185					190		
Asp	Thr	Trp	Pro	Gly	Arg	Xaa	Ser	Gly	Gly	Met	Ile	Val	Ile	Thr	Ser
		195					200					205			
Ile	Leu	Ser	Ser	Leu	Ala	Ser	Leu	Leu	Leu	Leu	Ala	Phe	Leu	Ala	Ala
	210					215					220				
Ser	Thr	Xaa	Arg	Phe	Ser	Ser	Leu	Trp	Trp	Pro	Glu	Glu	Ala	Pro	Glu
	225			230						235				240	
Gln	Leu	Arg	Ile	Gly	Ser	Phe	Met	Gly	Lys	Arg	Tyr	Met	Thr	His	His
			245					250					255		
Ile	Pro	Pro	Ser	Glu	Ala	Ala	Thr	Leu	Pro	Val	Gly	Cys	Glu	Pro	Gly
		260					265						270		
Leu	Asp	Pro	Xaa	Pro	Ser	Leu	Ser	Pro							
		275				280									

<210> 278
 <211> 45
 <212> PRT
 <213> Homo sapiens
 <400> 278

Met Pro Arg Arg Ser Arg Pro Cys Thr Leu Cys Leu Thr Leu Arg
1 5 10 15

Arg Ala Leu Ser Ser His Leu Pro Ser Ala Cys Gln Ser Pro Arg Arg
20 25 30

Arg Val Gln Gly Gln Val Leu Lys Arg Leu Lys Pro Leu
35 40 45

<210> 279

<211> 10

<212> PRT

<213> Homo sapiens

<400> 279

Met Ser Arg Arg Glu Asn Lys Phe Leu Leu
1 5 10

<210> 280

<211> 39

<212> PRT

<213> Homo sapiens

<400> 280

Met Pro Leu Thr Leu Pro Ser Arg Leu Ala Gly Gly Asn Val Phe Leu
1 5 10 15

Ile Ile Phe Thr Pro Gly Phe Cys Pro Gly Arg Val Asn Val Glu Ile
20 25 30

Pro Gln Arg Met Leu Asp Glu
35

<210> 281

<211> 67

<212> PRT

<213> Homo sapiens

<400> 281

Asp Trp Gly Phe Gln Thr Thr Phe Phe Ser Leu Gly Leu Tyr Leu Phe
1 5 10 15

Thr Ile Trp Trp Ser Thr Val Gly Leu Pro Trp Thr Ser Ser Thr Gln
20 25 30

Arg Glu Leu Asp Met Lys Leu Glu Ala Ala Ala Leu Glu Gly Lys Phe
35 40 45

Arg Leu Thr Trp Thr Ala Gln Ala Met Ala Gly Arg Ile Pro Ser Ser
50 55 60

Trp Gly Pro
65

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<210> 282
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 282
 Met Ile Leu Leu Ala Phe Phe Ile Leu Leu Tyr Leu Thr Ser Phe Ser
 1 5 10 15
 Leu Ala Arg Ser Leu Pro
 20

<210> 283
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 283
 Met Glu Ala Val Phe Phe Leu Phe Phe Leu Leu Leu Leu Thr Trp
 1 5 10 15
 Thr Ser Lys Ile Ala Pro Ile Leu Phe Ser
 20 25

<210> 284
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 284
 Met Gln Ala Leu Pro Pro Gly Phe Lys Gln Phe Ser Cys Leu Ser Leu
 1 5 10 15
 Pro Ser Arg Trp Asp Tyr Gly Cys Ala Thr Gln His Pro Ala Asn Phe
 20 25 30
 Cys Ile Phe Arg Arg Asp Arg Val Ser His Val Gly Gln Ala Gly Leu
 35 40 45
 Lys Leu Leu Thr Ser Val Asp Pro Pro Ala Trp Ala Ser Gln Ser Ala
 50 55 60
 Gly Ile Thr Gly Lys Ser His Cys Ala Gln Leu His Cys Cys Cys Phe
 65 70 75 80
 Leu Leu Leu Val Lys Arg Asp Gln Pro Leu Glu Lys Cys Leu Arg Leu
 85 90 95
 Phe Lys Gly Arg Ile Leu Cys Arg Gln Pro His Tyr Arg Leu Leu Ser
 100 105 110
 Asp Glu Cys Pro Gly Leu Leu Gln Asn Pro
 115 120

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<210> 285
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 285
 Met Ile His Leu Ser Arg Phe Tyr Leu Leu Ile Met Leu Pro His
 1 5 10 15
 Val Leu Phe Phe Thr Gly Asp Leu His Ser
 20 25

<210> 286
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 286
 Met Tyr Lys Cys Trp Tyr Arg
 1 5

<210> 287
 <211> 28
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 287
 Met Xaa Leu Asn Lys Thr Lys Ser Leu Thr Leu Leu Glu Leu Val Phe
 1 5 10 15
 Leu Pro Gly Glu Thr Val Ser Lys Pro Ser Thr Lys
 20 25

<210> 288
 <211> 56
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 288
 Met His Arg Leu Trp Ile Gly Pro Ala Phe Phe Leu Met Thr Ser Leu
 1 5 10 15
 Ser Val Ser Gly Ala Val Ile Pro Arg Asn Gly Gly Pro Gly Gly Val
 20 25 30

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Ser Ser Gly Pro Cys Leu Leu Gln Leu Leu Cys Gly Gln Ala Gly Ser
 35 40 45

Ser Thr Ile Arg Xaa Ile Pro Ser
 50 55

<210> 289

<211> 36

<212> PRT

<213> Homo sapiens

<400> 289

Met Cys Phe Ile Leu Val Val Cys Phe Ala Ser Leu Ile Thr Glu Cys
 1 5 10 15

Pro Cys His Cys Lys Cys Cys Arg Asp Val Gly Arg Gly Pro Thr Val
 20 25 30

Leu Tyr Glu Met
 35

<210> 290

<211> 20

<212> PRT

<213> Homo sapiens

<400> 290

Ser Ser Ser Cys Met Pro Arg Lys Leu Asp Trp Phe Ser Lys Lys Val
 1 5 10 15

Phe Leu Phe Phe
 20

<210> 291

<211> 122

<212> PRT

<213> Homo sapiens

<400> 291

Leu Arg Arg Pro Ser Thr Pro Leu Arg Arg Pro Trp Leu His Leu Gln
 1 5 10 15

Leu Pro Arg Ile Ser Leu Gly Asp Gln Arg Leu Ala Gln Ser Ala Glu
 20 25 30

Met Tyr His Tyr Gln His Gln Arg Gln Gln Met Leu Ser Leu Glu Arg
 35 40 45

His Lys Glu Pro Pro Lys Glu Leu Asp Thr Ala Leu Arg Met Arg Arg
 50 55 60

Met Arg Thr Glu Thr Ser Arg Cys Thr Ser Ala Arg Ala Trp Pro Arg
 65 70 75 80

Pro Gly Lys Trp Arg Cys Ala Thr Ile Cys Ser Thr Thr Pro His Cys

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85 138 95
90

Pro Arg Pro Cys Arg Pro Pro Ala His Arg Leu His Cys His Asp Leu
100 105 110

Glu Ala Asp Arg Arg Pro Leu Ala Pro Arg
115 120

<210> 292
<211> 60
<212> PRT
<213> Homo sapiens

<400> 292
Arg Ala Thr Gln Gly Ala Gly His Gly Ser Ser Asp Glu Glu Asn Glu
1 5 10 15

Asp Gly Asp Phe Thr Val Tyr Glu Cys Pro Gly Met Ala Pro Thr Gly
20 25 30

Glu Met Glu Val Arg Asn His Leu Phe Asp His Ala Ala Leu Ser Ala
35 40 45

Pro Leu Pro Ala Pro Ser Ser Pro Leu Ala Leu Pro
50 55 60

<210> 293
<211> 47
<212> PRT
<213> Homo sapiens

<400> 293
Lys Ala Glu Tyr Ala Thr Ala Lys Ala Leu Ala Thr Pro Ala Ala Thr
1 5 10 15

Pro Asp Leu Ala Trp Gly Pro Ala Pro Gly Thr Glu Arg Gly Asp Val
20 25 30

Pro Leu Pro Ala Pro Thr Ala Thr Asp Val Val Pro Gly Ala Ala
35 40 45

<210> 294
<211> 15
<212> PRT
<213> Homo sapiens

<400> 294
Ser Ala Glu Met Tyr His Tyr Gln His Gln Arg Gln Gln Met Leu
1 5 10 15

<210> 295
<211> 11
<212> PRT

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<213> Homo sapiens

<400> 295

Leu Glu Arg His Lys Glu Pro Pro Lys Glu Leu
1 5 10

<210> 296

<211> 12

<212> PRT

<213> Homo sapiens

<400> 296

Ala Lys Cys Pro Pro Gly Ala His Ala Cys Gly Pro
1 5 10

<210> 297

<211> 9

<212> PRT

<213> Homo sapiens

<400> 297

Pro Val His Met Ser Pro Leu Glu Pro
1 5

<210> 298

<211> 12

<212> PRT

<213> Homo sapiens

<400> 298

Trp Cys Arg Leu Gln Arg Glu Ile Arg Leu Thr Gln
1 5 10

<210> 299

<211> 18

<212> PRT

<213> Homo sapiens

<400> 299

Ser Ser Asp Glu Glu Asn Glu Asp Gly Asp Phe Thr Val Tyr Glu Cys
1 5 10 15

Pro Gly

<210> 300

<211> 10

<212> PRT

<213> Homo sapiens

<400> 300

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Ala Pro Thr Gly Glu Met Glu Val Arg Asn
 1 5 10

<210> 301
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 301
 Cys Pro Gly Ser Leu Asp Cys Ala Leu Lys
 1 5 10

<210> 302
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 302
 Asn Glu Asp Gly Asp Phe Thr Val Tyr Glu Cys Pro Gly Met Ala Pro
 1 5 10 15

Thr Gly Glu Met Glu Val
 20

<210> 303
 <211> 159
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (114)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (129)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (136)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 303
 Arg Pro Thr Arg Pro Ser Ser Ser Cys Val Leu Pro Arg Cys Leu Arg
 1 5 10 15
 Cys Ser Arg Arg Gly Ala Arg Ser Pro Arg Arg Ala Pro Gly Leu Ala
 20 25 30

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Val Pro Cys Cys Pro Gly Gly Gly Ala Glu Gly Trp Arg Arg Arg Cys
35 40 45

Leu Arg Pro Pro Arg Gly Thr Cys Gly Cys Cys Gly Cys Ser Pro
50 55 60

Ala Ser Ser Ser Ala Pro Pro Cys Val Glu Pro Pro Ala Thr Arg
65 70 75 80

Asn Val Ala Ala Cys Pro Gly Ser Leu Asp Cys Ala Leu Lys Lys Arg
85 90 95

Ala Ser Val Leu Leu Val His Met Pro Val Gly Leu Pro Ser Ala Leu
100 105 110

Pro Xaa Gly Thr Ala Lys Ala Cys Phe Ala Xaa Met Arg Arg Ala Ser
115 120 125

Xaa Gly Gly Arg Ala Gln Pro Xaa Leu Glu Met Arg Leu Ile Pro Gly
130 135 140

Pro Arg Glu Leu Ala Arg Lys Gly Ile Trp Thr Ser Ile Pro Pro
145 150 155

<210> 304

<211> 25

<212> PRT

<213> Homo sapiens

<400> 304

Arg Cys Leu Arg Cys Ser Arg Arg Gly Ala Arg Ser Pro Arg Arg Ala
1 5 10 15

Pro Gly Leu Ala Val Pro Cys Cys Pro
20 25

<210> 305

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 305

Gly Ser Leu Asp Cys Ala Leu Lys Lys Arg Ala Ser Val Leu Leu Val
1 5 10 15

His Met Pro Val Gly Leu Pro Ser Ala Leu Pro Xaa Gly Thr Ala Lys
20 25 30

Ala Cys

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<210> 306
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 306
 Asp Ser His Gln Ala Arg Ser Arg Arg Leu Glu Ala Leu Trp Ser Pro
 1 5 10 15
 Ser Leu Gly Glu Val Ser Ser Ser Thr
 20 25

<210> 307
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 307
 Cys Arg Trp Arg Pro Glu Ser Ala Ala Pro Cys
 1 5 10

<210> 308
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 308
 Thr Arg Pro Gly Arg Gly Ala Gln Ala Pro Val Lys
 1 5 10

<210> 309
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 309
 Met Val Ser Trp Met Ile Ser Arg Ala Val Val Leu Val Phe Gly Met
 1 5 10 15
 Leu Tyr Pro Ala Tyr
 20

<210> 310
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 310
 Gly Met Leu Tyr Pro Ala Tyr Tyr Ser Tyr Lys Ala Val Lys Thr Lys
 1 5 10 15

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Asn

<210> 311
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 311
 Glu Tyr Val Arg Trp Met Met Tyr Trp Ile Val Phe Ala Leu Tyr Thr
 1 5 10 15

Val

<210> 312
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 312
 Tyr Pro Ala Tyr Tyr Ser Tyr Lys Ala Val Lys Thr Lys Asn Val Lys
 1 5 10 15

Glu

<210> 313
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 313
 Val Ala Trp Phe Pro Leu Tyr Tyr Glu Leu Lys Ile Ala
 1 5 10

<210> 314
 <211> 186
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (181)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 314
 Met Val Ser Trp Met Ile Ser Arg Ala Val Val Leu Val Phe Gly Met
 1 5 10 15

Leu Tyr Pro Ala Tyr Tyr Ser Tyr Lys Ala Val Lys Thr Lys Asn Val
 20 25 30

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Lys Glu Tyr Val Arg Trp Met Met Tyr Trp Ile Val Phe Ala Leu Tyr
35 40 45

Thr Val Ile Glu Thr Val Ala Asp Gln Thr Val Ala Trp Phe Pro Leu
50 55 60

Tyr Tyr Glu Leu Lys Ile Ala Phe Val Ile Trp Leu Leu Ser Pro Tyr
65 70 75 80

Thr Lys Gly Ala Ser Leu Ile Tyr Arg Lys Phe Leu His Pro Leu Leu
85 90 95

Ser Ser Lys Glu Arg Glu Ile Asp Asp Tyr Ile Val Gln Ala Lys Glu
100 105 110

Arg Gly Tyr Glu Thr Met Val Asn Phe Gly Arg Gln Gly Leu Asn Leu
115 120 125

Ala Ala Thr Ala Ala Val Thr Ala Ala Val Lys Ser Gln Gly Ala Ile
130 135 140

Thr Glu Arg Leu Arg Ser Phe Ser Met His Asp Leu Thr Thr Ile Gln
145 150 155 160

Gly Asp Glu Pro Val Gly Gln Arg Pro Tyr Gln Pro Leu Pro Glu Ala
165 170 175

Lys Lys Lys Ser Xaa Gln Pro Pro Val Asn
180 185

<210> 315

<211> 12

<212> PRT

<213> Homo sapiens

<400> 315

Ile Thr Leu Cys Leu Val Cys Ile Val Ala Asn Ala
1 5 10

<210> 316

<211> 20

<212> PRT

<213> Homo sapiens

<400> 316

Met Ala Ile Pro Ala Phe Ser Ser Cys Gln Gln Ile Ser Ser Ala Ala
1 5 10 15

Ala Leu Gln Ile
20

<210> 317

<211> 14

<212> PRT

<213> Homo sapiens

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<400> 317

Cys Asn Gly Pro Phe Lys His Phe Ser Phe Thr Val Ser Thr
 1 5 10

<210> 318

<211> 8

<212> PRT

<213> Homo sapiens

<400> 318

Arg Ser Cys Lys Glu Ile Lys Asp
 1 5

<210> 319

<211> 13

<212> PRT

<213> Homo sapiens

<400> 319

Gly Gly Gly Trp Thr Leu Val Ala Ser Val His Glu Asn
 1 5 10

<210> 320

<211> 19

<212> PRT

<213> Homo sapiens

<400> 320

Ala Asp Tyr Pro Glu Gly Asp Gly Asn Trp Ala Asn Tyr Asn Thr Phe
 1 5 10 15

Gly Ser Ala

<210> 321

<211> 14

<212> PRT

<213> Homo sapiens

<400> 321

Ala Thr Ser Asp Asp Tyr Lys Asn Pro Gly Tyr Tyr Asp Ile
 1 5 10

<210> 322

<211> 11

<212> PRT

<213> Homo sapiens

<400> 322

Cys Ile Gly Gly Gly Gly Tyr Phe Pro Glu Ala

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1

5

10

<210> 323

<211> 11

<212> PRT

<213> Homo sapiens

<400> 323

Glu Ile Thr Glu Ala Ala Val Leu Leu Phe Tyr
1 5 10

<210> 324

<211> 6

<212> PRT

<213> Homo sapiens

<400> 324

Asp Ser Asp Lys Ile Thr
1 5

<210> 325

<211> 8

<212> PRT

<213> Homo sapiens

<400> 325

Tyr Gln Thr Phe Cys Asp Met Thr
1 5

<210> 326

<211> 57

<212> PRT

<213> Homo sapiens

<400> 326

Met Met Ala Thr Pro Ser Thr Arg Pro Pro Pro Pro Ala Ala Ser Thr
1 5 10 15Thr Ser Ala Thr Ala Pro Ala Leu Pro Pro Arg Pro Pro Trp Pro Trp
20 25 30Pro Pro Ser Ser Trp Pro Pro Ser Gly Val Ser Ser Lys Ala Pro Glu
35 40 45Ala Asp Pro Leu Lys Asn Lys Ala Leu
50 55

<210> 327

<211> 76

<212> PRT

<213> Homo sapiens

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<400> 327

Leu Leu Leu Thr Ser Pro Leu Pro Arg Cys Pro Pro Ala Cys Ser His
 1 5 10 15

Asp Ala Pro Ala His Pro Asp Pro Gly Gly Pro His Gly Leu Thr Ser
 20 25 30

Gly Pro Gly Leu Gly Leu Pro Arg Val Cys Leu Gln Arg Arg Gln Leu
 35 40 45

Leu Gln Pro His Ala Leu Pro Gly Tyr Gly Cys Leu Leu His Asp His
 50 55 60

Ala His Leu Leu His Pro His Gln Asp Glu Gly Gln
 65 70 75

<210> 328

<211> 56

<212> PRT

<213> Homo sapiens

<400> 328

Trp Leu Leu Gln Ala Arg Val His His Leu Leu Leu Pro Val Arg Pro
 1 5 10 15

Leu Gln Arg His Arg Pro Cys His Pro Gly His Pro Gly Pro Gly Pro
 20 25 30

His Pro Pro Gly His Pro Leu Gly Ser Pro Leu Lys Pro Pro Arg Gln
 35 40 45

Thr His Ser Arg Thr Lys Leu Ser
 50 55

<210> 329

<211> 300

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 329

Lys His Glu Xaa His Gln Val Ser Asp Gly Ala Leu Arg Cys Phe Ala
 1 5 10 15

Ser Leu Ala Asp Arg Phe Thr Arg Arg Gly Val Asp Pro Ala Pro Leu
 20 25 30

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Ala Lys His Gly Leu Thr Glu Glu Leu Leu Ser Arg Met Ala Ala Ala
 35 40 45

Gly Gly Thr Val Ser Gly Pro Ser Ser Ala Cys Lys Pro Xaa Arg Ser
 50 55 60

Thr Thr Gly Ala Pro Ser Thr Thr Ala Asp Ser Lys Leu Ser Asn Gln
 65 70 75 80

Val Ser Thr Ile Val Ser Leu Leu Ser Thr Leu Cys Arg Gly Ser Pro
 85 90 95

Val Val Thr His Asp Leu Leu Arg Ser Glu Leu Pro Asp Ser Ile Glu
 100 105 110

Ser Ala Leu Gln Gly Asp Glu Arg Cys Val Leu Asp Thr Met Arg Leu
 115 120 125

Val Asp Phe Leu Leu Val Leu Phe Glu Gly Arg Lys Ala Leu Pro
 130 135 140

Lys Ser Ser Ala Gly Ser Thr Gly Arg Ile Pro Gly Leu Arg Arg Leu
 145 150 155 160

Asp Ser Ser Gly Glu Arg Ser His Arg Gln Leu Ile Asp Cys Ile Arg
 165 170 175

Ser Lys Asp Thr Asp Ala Leu Ile Asp Ala Ile Asp Thr Gly Ala Phe
 180 185 190

Glu Val Asn Phe Met Asp Asp Val Gly Gln Thr Leu Leu Asn Trp Ala
 195 200 205

Ser Ala Phe Gly Thr Gln Glu Met Val Glu Phe Leu Cys Glu Arg Gly
 210 215 220

Ala Asp Val Asn Arg Gly Gln Arg Ser Ser Ser Leu His Tyr Ala Ala
 225 230 235 240

Cys Phe Gly Arg Pro Gln Val Ala Lys Thr Leu Leu Arg His Gly Ala
 245 250 255

Asn Pro Asp Leu Arg Asp Glu Asp Gly Lys Thr Pro Leu Asp Lys Ala
 260 265 270

Arg Glu Arg Gly His Ser Glu Val Val Ala Ile Leu Gln Ser Pro Gly
 275 280 285

Asp Trp Met Cys Pro Val Asn Lys Gly Asp Asp Lys
 290 295 300

<210> 330

<211> 17

<212> PRT

<213> Homo sapiens

<400> 330

Pro Leu Asp Lys Ala Arg Glu Arg Gly His Ser Glu Val Val Ala Ile
 1 5 10 15

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Leu

<210> 331
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 331
 Ala Lys Thr Leu Leu Arg His Gly Ala Asn Pro Asp Leu Arg Asp
 1 5 10 15

<210> 332
 <211> 54
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 332
 Gly Arg Gly Arg Ala Trp Leu Cys Arg Arg Pro Val Gly Ser Trp Ile
 1 5 10 15

Gly Ala Val Trp Asn Asp Lys Pro Asp Lys Glu Thr Phe Lys Lys Pro
 20 25 30

Trp Gln Met Trp Thr Gln Ile His Cys Trp Asn Gly Tyr Arg Trp Asp
 35 40 45

Xaa Xaa Asp Xaa Lys Asp
 50

<210> 333
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 333
 Ser Trp Ile Gly Ala Val Trp Asn Asp Lys Pro Asp Lys Glu Thr Phe
 1 5 10 15

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Lys Lys Pro Trp Gln Met Trp
20

<210> 334
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 334
Lys Thr Met Ala Asp Val Asp Pro Asp Thr Leu Leu Glu Trp Leu Gln
1 5 10 15
Met Gly Xaa Gly Arg Xaa Lys Gly His Ala Thr Asn Thr Pro
20 25 30

<210> 335
<211> 34
<212> PRT
<213> Homo sapiens

<400> 335
Arg Gly Val Asp Pro Ala Pro Leu Ala Lys His Gly Leu Thr Glu Glu
1 5 10 15
Leu Leu Ser Arg Met Ala Ala Ala Gly Gly Thr Val Ser Gly Pro Ser
20 25 30
Ser Ala

<210> 336
<211> 31
<212> PRT
<213> Homo sapiens

<400> 336
Arg Ser Thr Thr Gly Ala Pro Ser Thr Thr Ala Asp Ser Lys Leu Ser
1 5 10 15
Asn Gln Val Ser Thr Ile Val Ser Leu Leu Ser Thr Leu Cys Arg
20 25 30

<210> 337

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<211> 34
 <212> PRT
 <213> Homo sapiens

<400> 337
 Phe Glu Val Asn Phe Met Asp Asp Val Gly Gln Thr Leu Leu Asn Trp
 1 5 10 15
 Ala Ser Ala Phe Gly Thr Gln Glu Met Val Glu Phe Leu Cys Glu Arg
 20 25 30

Gly Ala

<210> 338
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 338
 Glu Asp Gly Lys Thr Pro Leu Asp Lys Ala Arg Glu Arg Gly His Ser
 1 5 10 15
 Glu Val Val Ala Ile Leu Gln Ser Pro Gly Asp Trp
 20 25

<210> 339
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 339
 Lys Ala Asp Val Lys Trp His Met Cys Leu Gln Ser Pro Leu Cys Gly
 1 5 10 15
 Leu Phe Cys Ser Ile Glu Gly Val Leu Lys
 20 25

<210> 340
 <211> 218
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (99)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

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<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 340

Ala Cys Met Asn Pro Ala Met Cys Phe Val Cys Ala Cys Pro His Thr
 1 5 10 15

Gly Ser Thr Pro Glu Lys Ala Ile Leu Gln Gly Arg Leu Ile Ser Leu
 20 25 30

Gly Thr Ser Leu Ser Pro Ala Ser Asn Gly Ser Gly Gln Gln Ser Phe
 35 40 45

Ser Ile Cys Met Ile Asn Pro Ser Leu Pro Xaa Ser Thr Ser Ser His
 50 55 60

His Leu Phe Ser Val Leu Thr Gly Asp Leu Asp Ser Tyr Ser Gln Arg
 65 70 75 80

Lys Leu Lys Pro Thr Ser Arg Lys Ser Phe Leu Leu Pro Lys Thr Gln
 85 90 95

Thr Tyr Xaa Val Xaa His Pro Ser Ser Pro Pro Leu Val Leu Val Gln
 100 105 110

His Arg Ser Pro Leu Ser Thr Tyr Pro Lys Pro Val Pro Ser Cys Cys
 115 120 125

Ala Leu Asp Leu Ile Ser Val Ile Ala Leu Glu Thr Phe Leu Val Tyr
 130 135 140

Ile His Leu Phe Pro Ser Ile Asp Leu Ser Tyr Trp Ile Leu Ser Met
 145 150 155 160

Leu Gln Pro Leu Leu Leu Ile Lys Gln Gln Ser Thr Lys Thr Leu Ser
 165 170 175

Leu Asn Cys Met Leu Tyr Ser Ser Tyr Tyr Leu Ile Ser Phe Leu Ser
 180 185 190

Phe Lys Ala Lys Val Leu Arg Arg Gly Gly Asn Ile Leu His His Phe
 195 200 205

Phe Thr Ser Tyr Ser Phe Phe Asn Thr Tyr
 210 215

<210> 341

<211> 28

<212> PRT

<213> Homo sapiens

<400> 341

Cys Pro His Thr Gly Ser Thr Pro Glu Lys Ala Ile Leu Gln Gly Arg
 1 5 10 15

Leu Ile Ser Leu Gly Thr Ser Leu Ser Pro Ala Ser
 20 25

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<210> 342
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 342
 Gln His Arg Ser Pro Leu Ser Thr Tyr Pro Lys Pro Val Pro Ser Cys
 1 5 10 15
 Cys Ala Leu Asp Leu Ile Ser Val
 20

<210> 343
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 343
 Ile Lys Gln Gln Ser Thr Lys Thr Leu Ser Leu Asn Cys Met Leu Tyr
 1 5 10 15
 Ser Ser Tyr Tyr Leu Ile Ser Phe Leu Ser Phe Lys Ala
 20 25

<210> 344
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 344
 Phe Leu Cys Ala Leu Ser Pro Leu Gly Gln Leu Leu Gln Asp Arg Tyr
 1 5 10 15
 Gly Trp Arg Gly Gly Phe Leu Ile Leu Gly Gly Leu
 20 25

<210> 345
 <211> 27
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 345
 Leu Leu Asn Cys Cys Val Cys Ala Ala Leu Met Arg Pro Leu Val Val
 1 5 10 15
 Thr Ala Gln Pro Gly Xaa Gly Pro Pro Arg Pro
 20 25

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<210> 346
 <211> 25
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 346
 Ser Arg Arg Leu Xaa Asp Leu Ser Val Phe Arg Asp Arg Gly Phe Val
 1 5 10 15

Leu Tyr Ala Val Ala Ala Ser Val Met
 20 25

<210> 347
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 347
 Gln Ala Gln Ser Asp Cys Ser Cys Ser Thr Val Ser Pro Gly
 1 5 10

<210> 348
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 348
 Val Leu Ala Gly Ile Val Met Gly Asp Leu Val Leu Thr Val Leu Ile
 1 5 10 15

Ala Leu Ala Val Tyr Phe Leu Gly
 20

<210> 349
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 349
 Val Pro Arg Gly Arg Gly Ala Ala Glu Ala Thr Arg Lys Gln Arg Ile
 1 5 10 15

Thr Glu Thr Glu Ser Pro Tyr Gln Glu Leu Gln Gly Gln Arg Ser Asp
 20 25 30

Val Tyr Ser Asp Leu
 35

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<210> 350
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 350
 Glu Thr Glu Ser Pro Tyr Gln Glu Leu Gln Gly Gln Arg Ser Asp Val
 1 5 10 15
 Tyr Ser Asp Leu Asn Thr
 20

<210> 351
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 351
 Leu Val Cys Tyr Cys Ser Thr Lys Lys Glu Lys Lys Leu His Glu Ile
 1 5 10 15
 Ala Ile Gln Gln Gly Gln Asn Trp Arg Trp Leu Leu Phe Tyr Lys Glu
 20 25 30
 Ile Ser Val Pro Gly Phe Gln Ser Val Trp Cys Ser Tyr Lys Cys Leu
 35 40 45
 Cys Val Val Trp Lys Ala Gly Glu Gly Gly
 50 55

<210> 352
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 352
 Arg Arg Ser Cys Ser Gly Pro Pro Leu Val Asn Thr Ala Gly Lys Ile
 1 5 10 15
 Leu Ser Ser Ser Pro Ala Lys Leu Ala Cys Lys Arg Thr Asp Phe His
 20 25 30
 Ile Pro Ser Ile
 35

<210> 353
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 353
 Arg Ala Ser Ile Leu Gly Ile Asp Asn Glu Arg Gly Cys His Phe Arg
 1 5 10 15

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His Phe Asn Pro Leu Lys Glu Tyr Lys Arg Lys Lys Lys Glu Asn Lys
20 25 30

Ser Phe Arg Ile Val
35

<210> 354

<211> 77

<212> PRT

<213> Homo sapiens

<400> 354

Ser Lys Asn Lys Thr Arg Gly Gly Asp Trp Cys Val Thr Val Leu Arg
1 5 10 15

Lys Arg Arg Lys Ser Phe Met Lys Ser Pro Phe Ser Lys Asp Arg Thr
20 25 30

Gly Asp Gly Phe Ser Phe Thr Lys Lys Ser Leu Ser Gln Ala Phe Ser
35 40 45

Leu Phe Gly Val His Thr Ser Val Cys Val Leu Cys Gly Arg Arg Gly
50 55 60

Lys Ala Gly Glu Gly Gly Pro Val Gln Gly Pro Leu Trp
65 70 75

<210> 355

<211> 55

<212> PRT

<213> Homo sapiens

<400> 355

Met Lys Ser Pro Phe Ser Lys Asp Arg Thr Gly Asp Gly Phe Ser Phe
1 5 10 15

Thr Lys Lys Ser Leu Ser Gln Ala Phe Ser Leu Phe Gly Val His Thr
20 25 30

Ser Val Cys Val Leu Cys Gly Arg Arg Gly Lys Ala Gly Glu Gly Gly
35 40 45

Pro Val Gln Gly Pro Leu Trp
50 55

<210> 356

<211> 154

<212> PRT

<213> Homo sapiens

<400> 356

Met Gly Lys Arg Ala His Glu Val Arg Arg Pro Pro His Ser Arg Pro
1 5 10 15

Leu His Gly Thr Pro Ala Gly Trp Val Leu Asp Pro Ser Gly Tyr Lys

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157

20 25 30

Asp Val Thr Gln Asp Ala Glu Val Met Glu Val Leu Gln Asn Leu Tyr
35 40 45

Arg Thr Lys Ser Phe Leu Phe Val Gly Cys Gly Glu Thr Leu Arg Asp
50 55 60

Gln Ile Phe Gln Ala Leu Phe Leu Tyr Ser Val Pro Asn Lys Val Asp
65 70 75 80

Leu Glu His Tyr Met Leu Val Leu Lys Glu Asn Glu Asp His Phe Phe
85 90 95

Lys His Gln Ala Asp Met Leu Leu His Gly Ile Lys Val Val Ser Tyr
100 105 110

Gly Asp Cys Phe Asp His Phe Pro Gly Tyr Val Gln Asp Leu Ala Thr
115 120 125

Gln Ile Cys Lys Gln Gln Ser Pro Gly His Leu Tyr Ser Asn Ser Trp
130 135 140

Ser Ala Thr Pro Asp Gly Arg Gly Gly Pro
145 150

<210> 357
<211> 26
<212> PRT
<213> Homo sapiens

<400> 357
Val Leu Asp Pro Ser Gly Tyr Lys Asp Val Thr Gln Asp Ala Glu Val
1 5 10 15

Met Glu Val Leu Gln Asn Leu Tyr Arg Thr
20 25

<210> 358
<211> 26
<212> PRT
<213> Homo sapiens

<400> 358
Tyr Ser Val Pro Asn Lys Val Asp Leu Glu His Tyr Met Leu Val Leu
1 5 10 15

Lys Glu Asn Glu Asp His Phe Phe Lys His
20 25

<210> 359
<211> 25
<212> PRT
<213> Homo sapiens

<400> 359

Asp Leu Ala Thr Gln Ile Cys Lys Gln Gln Ser Pro Gly His Leu Tyr
 1 5 10 15

Ser Asn Ser Trp Ser Ala Thr Pro Asp
 20 25

<210> 360

<211> 121

<212> PRT

<213> Homo sapiens

<400> 360

Arg Arg Met Lys Thr Ile Ser Leu Ser Ile Arg Gln Ile Cys Phe Cys
 1 5 10 15

Thr Glu Ser Lys Leu Tyr Pro Thr Gly Thr Val Leu Thr Thr Phe Gln
 20 25 30

Asp Met Cys Lys Thr Leu Pro Leu Arg Ser Ala Asn Ser Lys Ala Gln
 35 40 45

Asp Ile Cys Thr Arg Ile His Gly Val Pro Leu Leu Met Gly Glu Glu
 50 55 60

Ala His Asp Ser Asp Ser His Ala Ser Asp Arg Gly His His Thr Met
 65 70 75 80

Leu Pro Leu Pro Ala Gly Ser Phe Ser Glu Ser Ser His Gln Ala Trp
 85 90 95

Glu Val Glu Met Leu Ile Ala Trp Thr Ala Pro His Tyr Trp Val Met
 100 105 110

His Ala Arg Thr Val Gln Arg Gly Ser
 115 120

<210> 361

<211> 27

<212> PRT

<213> Homo sapiens

<400> 361

Thr Glu Ser Lys Leu Tyr Pro Thr Gly Thr Val Leu Thr Thr Phe Gln
 1 5 10 15

Asp Met Cys Lys Thr Leu Pro Leu Arg Ser Ala
 20 25

<210> 362

<211> 27

<212> PRT

<213> Homo sapiens

<400> 362

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Leu Met Gly Glu Glu Ala His Asp Ser Asp Ser His Ala Ser Asp Arg
 1 5 10 15

Gly His His Thr Met Leu Pro Leu Pro Ala Gly
 20 25

<210> 363

<211> 23

<212> PRT

<213> Homo sapiens

<400> 363

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Cys Thr Arg Leu
 1 5 10 15

Leu Arg Gly Ser Ser Lys Ile
 20

<210> 364

<211> 62

<212> PRT

<213> Homo sapiens

<400> 364

Met Ser Thr Gly Asp Gly Arg Asp Ala Glu Lys Gly Trp Pro Val Ser
 1 5 10 15

Glu Glu Glu Asn Gln Arg Ser Val Tyr Pro Gly Tyr Pro Glu Cys Asp
 20 25 30

Glu Arg Gln Ala Val Pro Gln His Cys Ala Ile Ala Ser Pro Ser Ser
 35 40 45

Leu Gln Ser His His Pro Ala Ser Ala Cys Val Pro Arg Arg
 50 55 60

<210> 365

<211> 38

<212> PRT

<213> Homo sapiens

<400> 365

Gln Gln Met Thr Leu Gly Thr Lys Ile Lys Trp Gly Gln Leu Gln Arg
 1 5 10 15

Gly Gln Glu Ile Pro Thr Gly Asp Phe Thr Val Arg Asn Phe Met Arg
 20 25 30

Phe Ser Ile Ile Tyr Cys
 35

<210> 366

<211> 31

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<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 366

Pro Phe Leu Phe Cys Ala Ser Arg Ile Arg Xaa Gln Gly Ile Gly Ile
 1 5 10 15

His Gly Gln Val Ala Cys Ser Ala Val Arg Met Tyr Asn Asn Arg
 20 25 30

<210> 367

<211> 103

<212> PRT

<213> Homo sapiens

<400> 367

Lys Cys Ile Tyr Pro Lys Pro Ala Arg Thr His His Cys Ser Ile Cys
 1 5 10 15

Asn Arg Cys Val Leu Lys Met Asp His His Cys Pro Trp Leu Asn Asn
 20 25 30

Cys Val Gly His Tyr Asn His Arg Tyr Phe Phe Ser Phe Cys Phe Phe
 35 40 45

Met Thr Leu Gly Cys Val Tyr Cys Ser Tyr Gly Ser Trp Asp Leu Phe
 50 55 60

Arg Glu Ala Tyr Ala Ala Ile Glu Lys Met Lys Gln Leu Asp Lys Asn
 65 70 75 80

Lys Leu Gln Ala Val Ala Asn Gln Thr Tyr His Gln Thr Pro Pro Pro
 85 90 95

Thr Phe Ser Phe Arg Glu Arg
 100

<210> 368

<211> 38

<212> PRT

<213> Homo sapiens

<400> 368

Ala Arg Gly His Trp Asn Leu Ile Leu Ile Val Phe His Tyr Tyr Gln
 1 5 10 15

Ala Ile Thr Thr Pro Pro Gly Tyr Pro Pro Gln Gly Arg Asn Asp Ile
 20 25 30

Ala Thr Val Ser Ile Cys
 35

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<210> 369
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 369
 Trp Gln Cys Glu Leu Asp Cys Val Ser His Asp Ser Ser Thr His Ser
 1 5 10 15
 Ala Pro Tyr Val Ile Ser Arg Ala Ser Lys Gly Ser Phe Ser Gln Asn
 20 25 30

Pro

<210> 370
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 370
 Ser Lys Arg Ala Ser Gly Pro Ala Leu Gly Tyr His Ala Gly Gln Phe
 1 5 10 15
 Lys Asp Gln Pro Phe Tyr His Cys Arg Arg Lys Thr Gln Cys Gly Glu
 20 25 30
 Ile Leu Gly Leu Thr Ser Leu Tyr Ser Gly Lys Gln Lys Phe Gln Pro
 35 40 45
 Gln Thr Arg Gly Gln Ala Ala Ser Tyr Leu Pro Cys Pro Val Leu Thr
 50 55 60
 Arg Thr Ser Ser Arg Ile Gln His Trp Ser Trp Pro Pro Pro Leu Leu
 65 70 75 80
 Leu Ala Val

<210> 371
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 371
 Glu Ser Leu Gln Leu Arg Leu Leu Gly Gln Leu Glu Gly Ile Pro Gly
 1 5 10 15
 Cys Gly Tyr Arg Lys Ala Leu Ala Tyr Ser Gly Ala Leu Thr Phe
 20 25 30

<210> 372
 <211> 66

09973278.101001

<212> PRT

<213> Homo sapiens

<400> 372

Ser Leu Ala Pro Trp Glu Trp Asn Glu Leu Gly Ala Pro Ser Leu Gly
 1 5 10 15

Asp Cys Ser Leu Ser Leu Cys Asp Gly Ser Val Ser Trp Thr Val Ser
 20 25 30

Ala Thr Thr Arg Ala Leu Ile Leu Leu Pro Met Leu Phe Gln Gly Pro
 35 40 45

Pro Arg Ala Ala Phe Leu Arg Ile Leu Asp Gln Lys Glu Pro Val Gly
 50 55 60

Leu Pro
 65

<210> 373

<211> 9

<212> PRT

<213> Homo sapiens

<400> 373

Leu Lys Cys Thr Ile Tyr Gly Gly Ala
 1 5

<210> 374

<211> 20

<212> PRT

<213> Homo sapiens

<400> 374

Ala Ser Ile Asp Thr Trp Pro Gly Arg Arg Ser Gly Gly Met Ile Val
 1 5 10 15

Ile Thr Ser Ile
 20

<210> 375

<211> 41

<212> PRT

<213> Homo sapiens

<400> 375

Gly Ser Pro Gln Ala Glu Thr Arg Trp Ser Asp Pro Ile Ala Leu His
 1 5 10 15

Gln Gly Lys Ser Pro Ala Ser Ile Asp Thr Trp Pro Gly Arg Arg Ser
 20 25 30

Gly Gly Met Ile Val Ile Thr Ser Ile
 35 40

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<210> 376
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 376
 Gly Ser Lys Gly Gln Glu Arg Lys Trp Arg Val Arg Met Gly Tyr Leu
 1 5 10 15

Asn

<210> 377
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 377
 Gln Arg Tyr Arg Leu Leu Pro Leu Phe Cys Tyr Val Cys Ser Arg Lys
 1 5 10 15

Ile Lys Leu Asn Glu Asn Leu Phe Val Phe Ser Ala Tyr Ser Leu Ala
 20 25 30

Thr Leu Pro His Thr Tyr Leu Phe Ser Ile Val Glu Cys Ser Ser Phe
 35 40 45

Cys Leu Ser Gly Thr Arg Asn
 50 55

<210> 378
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 378
 Phe Ser Ala Tyr Ser Leu Ala Thr Leu Pro His Thr Tyr Leu Phe Ser
 1 5 10 15

Ile Val Glu Cys Ser Ser Phe Cys Leu Ser Gly
 20 25

<210> 379
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 379
 Met Thr Leu Asp Glu Trp Lys Asn Leu Gln Glu Thr Arg Pro Lys
 1 5 10 15

Pro Glu Phe Asn Ile Arg Lys Pro Glu Ser Thr Val Pro Ser Lys Ala
 20 25 30

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Val Val Ile Arg Glu Ser Lys Tyr Arg Asp Asp Met Val Lys Asp Asp
35 40 45

Tyr Glu Asp Asp Ser His Val Phe Arg Lys Pro Ala Asn Asp Ile Thr
50 55 60

Ser Gln Leu Glu Ile Asn Phe Gly Asn Leu Pro Arg Pro Gly Arg Gly
65 70 75 80

Ala Arg Gly Gly Thr Arg Gly Gly Arg Gly Arg Ile Arg Arg Ala Glu
85 90 95

Asn Tyr Gly Pro Arg Ala Glu Val Val Met Gln Asp Val Ala Pro Asn
100 105 110

Pro Asp Asp Pro Glu Asp Phe Pro Ala Leu Ser
115 120

<210> 380

<211> 100

<212> PRT

<213> Homo sapiens

<400> 380

Cys Lys Met Leu Pro Pro Thr Gln Met Thr Arg Lys Ile Ser Leu Arg
1 5 10 15

Cys Leu Glu Arg Ala Leu Phe Pro Ser Thr Ala Glu Leu His Cys Thr
20 25 30

Pro Val Gly Arg Leu Phe Gln Leu Gly Gln Gly Ser Gln Thr Leu Arg
35 40 45

Thr Ile Asp Val Ala Phe Pro Val Ser Cys Lys Phe Val Ala Leu Phe
50 55 60

Trp Ala Glu Leu Leu Glu Gly Leu Leu Gln Arg Leu Glu Ser Arg Pro
65 70 75 80

Phe Pro Lys Lys Met Lys Asn Gly Asp Cys Val Phe Ile Glu Gly Ile
85 90 95

Ser Asn Glu Glu
100

<210> 381

<211> 41

<212> PRT

<213> Homo sapiens

<400> 381

Pro Pro Ser Ser Trp Ala Trp Ser Gln Arg Arg His Pro Gly Arg Pro
1 5 10 15

Gly Lys Asp Gln Glu Gly Arg Glu Leu Trp Thr Gln Ser Arg Ser Gly
20 25 30

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Asp Ala Arg Cys Cys Pro Gln Pro Arg
35 40

<210> 382
<211> 22
<212> PRT
<213> Homo sapiens

<400> 382
Cys Leu Lys Cys Val Tyr Arg Asp Ser Ile Asp Ser Ser Ala Glu Ala
1 5 10 15

Trp Arg Glu Arg Arg Leu
20

<210> 383
<211> 24
<212> PRT
<213> Homo sapiens

<400> 383
Ala Arg Ala Gly Gln Met Gln Asn Leu Glu Ser Ala Arg Ala Gly Arg
1 5 10 15

Ser Val Ser Thr Gln Thr Gly Ser
20

<210> 384
<211> 10
<212> PRT
<213> Homo sapiens

<400> 384
Thr Val Trp Gly Ile Leu Pro Arg Lys Arg
1 5 10

<210> 385
<211> 34
<212> PRT
<213> Homo sapiens

<400> 385
His Glu Ala Ala Gln Gly Ala Val Cys Arg Gly Gln Gly Ala Pro Ala
1 5 10 15

Thr Asn Pro Gln Ala Pro Val Ala Ala Ala Arg Val Ala Arg Arg
20 25 30

Val Asn

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<210> 386
 <211> 255
 <212> PRT
 <213> Homo sapiens

<400> 386
 Lys Ile Pro Ser Ala Asn Arg Arg Ala Thr Arg Cys Leu Gly Cys Asp
 1 5 10 15
 His Gln Asn Phe Val Lys Val Arg Asn Lys His Lys Gly Lys Pro Thr
 20 25 30
 Phe Met Glu Glu Val Leu Glu His Leu Pro Gly Lys Thr Gln Asp Glu
 35 40 45
 Val Gln Gln His Glu Lys Trp Tyr Gln Lys Phe Leu Ala Leu Glu Glu
 50 55 60
 Arg Lys Lys Glu Ser Ile Gln Ile Trp Lys Thr Lys Lys Gln Gln Lys
 65 70 75 80
 Arg Glu Glu Ile Phe Lys Leu Lys Glu Lys Ala Asp Asn Thr Pro Val
 85 90 95
 Leu Phe His Asn Lys Gln Glu Asp Asn Gln Lys Gln Lys Glu Glu Gln
 100 105 110
 Arg Lys Lys Gln Lys Leu Ala Val Glu Ala Trp Lys Lys Gln Lys Ser
 115 120 125
 Ile Glu Met Ser Met Lys Cys Ala Ser Gln Leu Lys Lys Lys Lys
 130 135 140
 Lys Lys Lys Lys Asn Gln Lys Glu Arg Gln Arg Gln Phe Lys Leu Lys
 145 150 155 160
 Leu Leu Leu Glu Ser Tyr Thr Gln Gln Lys Lys Glu Gln Glu Glu Phe
 165 170 175
 Leu Arg Leu Glu Lys Glu Ile Arg Glu Lys Ala Glu Lys Ala Glu Lys
 180 185 190
 Arg Lys Asn Ala Ala Asp Glu Ile Ser Arg Phe Gln Glu Arg Asp Leu
 195 200 205
 His Lys Leu Glu Leu Lys Ile Leu Asp Arg Gln Ala Lys Glu Asp Glu
 210 215 220
 Lys Ser Gln Lys Gln Arg Arg Leu Ala Lys Leu Lys Glu Lys Val Glu
 225 230 235 240
 Asn Asn Val Ser Arg Asp Pro Ser Arg Leu Tyr Lys Pro Thr Lys
 245 250 255

<210> 387
 <211> 24
 <212> PRT
 <213> Homo sapiens

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<400> 387

Val	Lys	Val	Arg	Asn	Lys	His	Lys	Gly	Lys	Pro	Thr	Phe	Met	Glu	Glu
1				5					10					15	

Val	Leu	Glu	His	Leu	Pro	Gly	Lys
							20

<210> 388

<211> 23

<212> PRT

<213> Homo sapiens

<400> 388

Gln	His	Glu	Lys	Trp	Tyr	Gln	Lys	Phe	Leu	Ala	Leu	Glu	Glu	Arg	Lys
1				5					10					15	

Lys	Glu	Ser	Ile	Gln	Ile	Trp
						20

<210> 389

<211> 31

<212> PRT

<213> Homo sapiens

<400> 389

Phe	Lys	Leu	Lys	Glu	Lys	Ala	Asp	Asn	Thr	Pro	Val	Leu	Phe	His	Asn
1				5					10					15	

Lys	Gln	Glu	Asp	Asn	Gln	Lys	Gln	Lys	Glu	Glu	Gln	Arg	Lys	Lys
			20				25						30	

<210> 390

<211> 36

<212> PRT

<213> Homo sapiens

<400> 390

Phe	Leu	Arg	Leu	Glu	Lys	Glu	Ile	Arg	Glu	Lys	Ala	Glu	Lys	Ala	Glu
1				5					10					15	

Lys	Arg	Lys	Asn	Ala	Ala	Asp	Glu	Ile	Ser	Arg	Phe	Gln	Glu	Arg	Asp
				20				25						30	

Leu	His	Lys	Leu
			35

<210> 391

<211> 24

<212> PRT

<213> Homo sapiens

<400> 391

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Lys Gln Arg Arg Leu Ala Lys Leu Lys Glu Lys Val Glu Asn Asn Val
 1 5 10 15

Ser Arg Asp Pro Ser Arg Leu Tyr
 20

<210> 392

<211> 44

<212> PRT

<213> Homo sapiens

<400> 392

Leu Pro Pro Cys Leu Ala Gln Ile Phe Pro Phe Phe Ser Ser Gly Thr
 1 5 10 15

Asn Leu Thr Phe Cys Phe Phe Val Phe Val Phe Val Phe Val Phe Ala
 20 25 30

Glu Leu Asp Tyr Arg Asn Ser Tyr Glu Ile Glu Tyr
 35 40

<210> 393

<211> 56

<212> PRT

<213> Homo sapiens

<400> 393

His Val Leu Trp Ser Leu Leu Ser Ala Cys Trp Thr Gln Phe Leu Val
 1 5 10 15

Tyr Phe Cys Cys Leu Met Ile Leu Gln Arg Thr Phe Pro Pro Arg Ala
 20 25 30

Leu Arg Thr Ser Pro Trp Leu Ser Asn Pro Met Gly Val Lys Gly Lys
 35 40 45

Lys Lys Lys Gly Thr Phe Met Glu
 50 55

<210> 394

<211> 30

<212> PRT

<213> Homo sapiens

<400> 394

Phe Leu Val Tyr Phe Cys Cys Leu Met Ile Leu Gln Arg Thr Phe Pro
 1 5 10 15

Pro Arg Ala Leu Arg Thr Ser Pro Trp Leu Ser Asn Pro Met
 20 25 30

<210> 395

<211> 18

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<212> PRT

<213> Homo sapiens

<400> 395

Ile Arg His Glu Arg Leu Trp Ala Glu Leu Ala Leu Leu Thr Gly Arg
 1 5 10 15

Asn Glu

<210> 396

<211> 37

<212> PRT

<213> Homo sapiens

<400> 396

Leu Ile Ser Ser Val Asn Lys Thr Lys Gln Lys Arg Ser Asp Ala Thr
 1 5 10 15

Leu Ser His Lys His Asp Arg Leu Leu Asn His Phe Val Phe Phe Gly
 20 25 30

Asn Ser Tyr Asn Tyr
 35

<210> 397

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 397

Ser Ser Lys Phe Pro Ser Asp Met Leu Leu Arg Ile Gln Gln Ile Ile
 1 5 10 15

Tyr Cys His Lys Leu Thr Ile Ile Leu Thr Lys Trp Arg Asn Thr Ala
 20 25 30

Arg His Lys Ser Lys Lys Lys Glu Asp Glu Leu Ile Leu Lys His Glu
 35 40 45

Leu Gln Leu Lys Lys Trp Lys Asn Arg Leu Ile Leu Lys Arg Ala Ala
 50 55 60

Ala Glu Glu Ser Asn Phe Pro Glu Arg Ser Ser Ser Glu Val Phe Leu
 65 70 75 80

Val Asp Glu Thr Leu Lys Cys Asp Ile Ser Leu Leu Pro Glu Xaa Ala
 85 90 95

Ile Leu Gln Val Cys Met Asn Ser Val Tyr Ile Ile Tyr Tyr Asn Leu
 100 105 110

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Pro Ser Val Val Val His Ala Cys Asn Pro Ser Cys Leu Gly Gly
 115 120 125

<210> 398
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 398
 Ser Leu Glu Ser Thr Asn Ala Ile Lys Ser Asn
 1 5 10

<210> 399
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 399
 Ile Arg Pro Asn Lys Asn Asp Gln Met Arg His Cys Leu Ile Asn Met
 1 5 10 15

Ile Asp Tyr

<210> 400
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 400
 Ile Thr Leu Cys Phe Leu Glu Thr Ala Ile Thr Ile Asn Ile Tyr Ser
 1 5 10 15

Asn Leu Val Asn Phe Leu Gln Ile Cys Tyr Cys Gly Tyr Asn Arg Ser
 20 25 30

Ser Ile Val Thr Ser
 35

<210> 401
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 401
 Ile Ser Phe Arg Tyr Ala Ile Ala Asp Thr Thr Asp His Leu Leu Ser
 1 5 10 15

Gln Ala Asn His Tyr Pro Asn Lys Met Ala Glu Tyr Ser Lys Thr
 20 25 30

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<210> 402
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 402
 Thr Leu Val Ala Gly Ser Pro Cys Ser Leu Ser Arg Trp Ile Met Ala
 1 5 10 15
 Gly Phe Cys His Gly Glu Leu Val Gln Ser Asp Met Glu Ser Gln Glu
 20 25 30
 Trp Glu Arg Gly Gln Val Val Leu Ser His Thr Ser Leu Pro Trp Cys
 35 40 45
 Tyr Val Ser Pro Arg
 50

<210> 403
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 403
 Met Ala Gly Phe Cys His Gly Glu Leu Val Gln Ser Asp Met Glu Ser
 1 5 10 15
 Gln Glu Trp Glu Arg Gly Gln Val Val Leu Ser His Thr Ser Leu Pro
 20 25 30
 Trp Cys Tyr Val Ser Pro Arg
 35

<210> 404
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 404
 Met Ala Val Trp Ile Ser Gly Ser Tyr Ser Ser Phe Cys Ser Arg Ser
 1 5 10 15
 Asn Trp Asp Val Phe Ser Pro Asn Ile Val Leu Ala Ser Leu Pro Phe
 20 25 30
 Ser Phe Arg Ser Val Ser Lys Ala Ala Lys Pro Trp Trp Leu Ala Leu
 35 40 45
 Pro Ala Leu Phe Pro Asp Gly Leu Trp Leu Asp Ser Ala Met Gly Ser
 50 55 60
 Leu Tyr Ser Gln Thr Trp Lys Ala Arg Asn Gly Lys Glu Val Arg Trp
 65 70 75 80
 Phe Ser Pro Thr Pro His Cys Leu Gly Ala Met Ser His Leu
 85 90

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<210> 405
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 405
 Gly Trp Leu Tyr Gly Ser Val Gly Leu Ile Pro His Ser Ala Ala Glu
 1 5 10 15

Ala Thr Gly

<210> 406
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 406
 Val Cys Ile Pro Gly Ala Ala Gly Leu Ser Val Leu Leu Gly
 1 5 10

<210> 407
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 407
 Ile Ala Trp Ser Gly Asn Ile Pro Ser Leu Leu Cys Leu Phe Glu His
 1 5 10 15

Asp Met Ser Phe Gln Asp Glu
 20

<210> 408
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 408
 Ile Arg His Glu Gly Gln Ser Ser Ser Arg Gly Ser Ser His Cys Asp
 1 5 10 15

Ser Pro Ser Pro Gln Glu Asp Gly Gln Ile Met Phe Asp Val Glu Met
 20 25 30

His Thr Ser Arg Asp His Ser Ser Gln Ser Glu Glu Val Val Glu
 35 40 45

Gly Glu Lys Glu Val Glu Ala Leu Lys Lys Ser Ala Asp Trp Val Ser
 50 55 60

Asp Trp Ser Ser Arg Pro Glu Asn Ile Pro Pro Lys Glu Phe His Phe
 65 70 75 80

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Arg His Pro Lys Arg Ser Val Ser Leu Ser
85 90

<210> 409
<211> 40
<212> PRT
<213> Homo sapiens

<400> 409
Gly Ile Leu Leu Thr Leu Tyr Pro Phe Trp Pro Glu Asp Ile Leu Glu
1 5 10 15

Phe Pro Asn Arg Val Tyr Cys Cys Leu Glu Ile Cys Lys Gly Phe Phe
20 25 30

Ser Ala Asn Ala Thr Ser Arg Leu
35 40

<210> 410
<211> 47
<212> PRT
<213> Homo sapiens

<400> 410
Glu Phe Gly Thr Arg Asp Arg Val Val Pro Glu Ala Val Leu Thr Val
1 5 10 15

Thr Ala Leu Arg His Lys Lys Met Gly Arg Ser Cys Leu Met Trp Lys
20 25 30

Cys Thr Pro Ala Gly Thr Ile Ala Leu Ser Gln Lys Lys Lys Leu
35 40 45

<210> 411
<211> 52
<212> PRT
<213> Homo sapiens

<400> 411
Ala His Pro Leu Pro Ala Pro Thr Glu Gly Lys Glu Lys Pro Leu Glu
1 5 10 15

Met Arg Val Thr Cys Glu Val Val Tyr Cys His Ser Ser Leu Phe Glu
20 25 30

Leu Glu Thr Ile Val Ser Met Thr Gln Pro Thr Thr Leu Phe Leu His
35 40 45

Ile Gln Phe Gln
50

<210> 412

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<211> 68
 <212> PRT
 <213> Homo sapiens

<400> 412
 Thr Phe Cys Val Phe Lys His Glu Glu Lys Trp Ser His Glu Glu Arg
 1 5 10 15
 Gly Tyr Phe Leu Arg Arg Ile Ser Glu Gly Val His Ser Ile Ser Leu
 20 25 30
 Pro Phe Ser Cys Phe Gly Phe Gly Ala Arg His Leu Trp Lys Ala
 35 40 45
 Thr Glu His Thr Leu Cys Gln His Leu Leu Arg Glu Arg Lys Ser Pro
 50 55 60
 Trp Lys Cys Val
 65

<210> 413
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 413
 Gln Ser Leu Leu Leu Phe Arg Asn Leu Gln Gly Leu Leu Phe Arg Lys
 1 5 10 15
 Cys His Gln Gln Ile Ile Ile Leu Ser Ala Met Leu Leu Ser Leu Ile
 20 25 30
 Ser Ala Thr Arg Leu Asp Leu Tyr His Ser Trp Tyr Lys Phe Tyr Ser
 35 40 45
 Cys Asn Ile Thr Thr Ile Ser Leu Leu Lys Arg Asp Gln Val Ser Lys
 50 55 60

<210> 414
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 414
 Val Thr Ala Tyr Gln Asn Gln Gln Ile Thr Arg Leu Lys Ile Asp Arg
 1 5 10 15
 Asn Pro Phe Ala Lys Gly Phe Arg
 20

<210> 415
 <211> 16

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<212> PRT

<213> Homo sapiens

<400> 415

Gly Thr Ala Thr Val Thr Ala Tyr Gln Asn Gln Gln Ile Thr Arg Leu
 1 5 10 15

<210> 416

<211> 24

<212> PRT

<213> Homo sapiens

<400> 416

Lys Ile Asp Arg Asn Pro Phe Ala Lys Gly Phe Arg Asp Ser Gly Arg
 1 5 10 15

Asn Arg Met Gly Leu Glu Ala Leu
 20

<210> 417

<211> 21

<212> PRT

<213> Homo sapiens

<400> 417

Ser Thr Leu Leu Gln Val Leu Gly Met Ala Phe Leu Pro Leu Thr Leu
 1 5 10 15

Thr Phe Cys Leu Ala
 20

<210> 418

<211> 30

<212> PRT

<213> Homo sapiens

<400> 418

Val Glu Ser Tyr Ala Phe Trp Arg Pro Ser Leu Arg Thr Leu Thr Phe
 1 5 10 15

Glu Asp Ile Pro Gly Ile Pro Lys Gln Gly Asn Ala Ser Ser
 20 25 30

<210> 419

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

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<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 419

His Gly Asp Trp Ile Tyr Val His Ile Val Glu Gln Leu Asn Gln Ala
 1 5 10 15

Asn Asn Lys Ser Val Thr Ser His Thr Tyr Phe Val Val Lys Thr Cys
 20 25 30

Lys Ile His Ser Leu Ser Asn Phe Gln Ala Ser Asn Thr Leu Leu Xaa
 35 40 45

Thr Val Val Thr Met Leu Tyr Asn Arg Ser Leu Glu Leu Ile Leu Pro
 50 55 60

Val
 65

<210> 420

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 420

Thr Tyr Ser Ser Cys Leu Thr Lys Ile Leu Tyr Ser Leu Ile Asn Ile
 1 5 10 15

Tyr Pro Ile Pro His Cys Ser Pro Ala Xaa Ile Thr Thr Ile Leu Leu
 20 25 30

Ser Ala Ser Met Asn Leu Thr Phe Phe Phe Phe Arg Phe His Ile Cys
 35 40 45

Glu Ile Ala Gln Tyr Leu Ser Phe Cys Ala Trp Leu Ile Ser Leu Asn
 50 55 60

Ile Lys Ser Leu
 65

<210> 421

<211> 33

<212> PRT

<213> Homo sapiens

<400> 421

Met Asn Leu Thr Phe Phe Phe Phe Arg Phe His Ile Cys Glu Ile Ala
 1 5 10 15

Gln Tyr Leu Ser Phe Cys Ala Trp Leu Ile Ser Leu Asn Ile Lys Ser
 20 25 30

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Leu

<210> 422
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 422
 Arg Ser Lys Arg Gln Ser Gln Gly Ser Arg Cys Ser Val Pro Leu Leu
 1 5 10 15
 Ala Gln Gln Ser Arg Ser Pro Pro Val Pro Leu Gln Ala Gln Pro Ala
 20 25 30
 Trp Leu Leu Gly Ser Glu Thr Ile Ala Trp Ser Gly Gly Gly Ser Gly
 35 40 45
 Trp Glu Gly Pro Arg Asp Pro Gly Thr Ser Thr Ala Ala Gly Asn Ser
 50 55 60
 Gly Pro Gly Ile Gly Met Gly His Arg Thr Pro Pro Pro Ser His Thr
 65 70 75 80
 Gly Arg

<210> 423
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 423
 Arg Trp Asp Pro Ala Trp Gly Leu Asp Ile Pro Glu Ser Ser Cys Pro
 1 5 10 15
 Val Thr Met Gly Glu Leu Arg Ser Gly Asp Gly Ile Val Leu
 20 25 30

<210> 424
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 424
 Gly Ala Leu Leu Trp Asp Asn Ser Met Ile Ser Ala Pro Arg Gly Ser
 1 5 10 15
 His Arg Glu Ala Gly Ala Leu Phe Pro Ser Trp Leu Ser Asn Pro Ala
 20 25 30
 Val Leu Pro Ser Arg Ser Arg Pro Ser Gln Pro Gly Cys Leu Asp Pro
 35 40 45
 Arg Gln

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50

<210> 425
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 425
 Asn Ser Ala Arg Glu Pro Arg Arg Trp Ile Arg Pro Thr Arg Gly Ser
 1 5 10 15
 Gly Glu Thr Thr Ala Pro Cys Cys Phe Glu Pro Leu Asn Gly Gly Thr
 20 25 30
 Leu Val His Ala Ala Ala Met Ala Arg Ala Ser Glu Ala Ala Gly Thr
 35 40 45
 Gly

<210> 426
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 426
 Met Ala Arg Ala Ser Glu Ala Ala Gly Thr Gly
 1 5 10

<210> 427
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 427
 Cys Phe Thr Thr Ala Phe Gln Lys Ala Leu Arg Asp Pro Arg Pro Thr
 1 5 10 15
 Leu Pro Asp Thr His Gly Ser Leu Arg Asn Ala Pro Leu Lys Ser Leu
 20 25 30
 Thr Leu Pro Ala Ala Phe Val Val Ser Phe Phe Phe Leu Ser Leu Leu
 35 40 45
 Gln Asp Gly Ile Lys Glu Arg Ser Gln Thr Gln Asn Ala Thr Phe Phe
 50 55 60
 Phe His Asp Arg Ser Asp Ile Glu Gly Leu Ser Glu Glu Pro Cys Ser
 65 70 75 80
 Gly Thr Thr Pro

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<210> 428
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 428
 Leu Ala Leu Gln Glu Ala Val Thr Gly Lys Gln Val Leu Cys Ser Pro
 1 5 10 15
 Pro Gly Ser Ala Ile Pro Gln Ser Ser Arg Pro Ala Pro Gly Pro Ala
 20 25 30
 Ser Leu Ala Ala Trp Ile Arg Asp Asn Ser Leu Val Trp Arg Arg Leu
 35 40 45
 Arg Val Gly Gly Thr Gln Gly Pro Gly His Gln Tyr Ser Ser Trp Glu
 50 55 60
 Phe Arg Pro Arg Asp Arg Asp Gly Ala Gln Asp Thr Thr Pro Ile Ser
 65 70 75 80
 His Arg Glu Met Lys Val Gly Ser Ser Met Gly Thr Gly His Pro
 85 90 95

<210> 429
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 429
 Met Ala Gly Arg Leu Phe Thr Leu Leu Leu Trp Gln Glu Leu Ala Arg
 1 5 10 15
 Arg Leu Val Pro Gly Asp Ala Ser Pro Arg Leu Ser Arg Lys Arg Ser
 20 25 30
 Val Thr Pro Gly Pro Pro Phe Pro Thr Leu Thr Val Pro Ser Glu
 35 40 45

<210> 430
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 430
 Val Trp Leu Leu Ser Ser Ile Leu Leu Arg Val Leu Trp Asn Arg Tyr
 1 5 10 15
 Thr Leu Gln Glu Leu Ser Phe Trp Leu Pro Trp Phe Ala Ser Arg Ala
 20 25 30
 Thr Ser Leu Val Leu Gln His Gly Asp Asn Tyr Leu Leu Phe Leu Phe
 35 40 45
 Cys Phe Val Cys Phe Val Leu Ala Met Pro Phe
 50 55

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<210> 431
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 431
 Ile Arg His Glu Val Ser Met Ala Phe Val Phe His Leu Ala Gln Gly
 1 5 10 15
 Thr Leu Glu Pro Leu Tyr Ile Ala Gly Ala
 20 25

<210> 432
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 432
 Asn Ser Ala Arg Gly Glu Tyr Gly Phe Cys Leu Pro Ser Cys Ser Gly
 1 5 10 15
 Tyr Phe Gly Thr Ala Ile His Cys Arg Ser Leu Ala Ser Gly Tyr His
 20 25 30
 Gly Leu Leu Pro Glu Gln Gln Ala
 35 40

<210> 433
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 433
 His Glu Leu Thr Val Pro Ser Arg Met Gly Ser Lys Gly Lys Pro Tyr
 1 5 10 15
 Pro Cys Gly Phe Tyr Ser Ser Leu Ile Pro
 20 25

<210> 434
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 434
 Gly Thr Glu Ser Pro Met Val Met Cys Cys Arg Glu Val Ser Gln Ser
 1 5 10 15
 Glu Asn Cys Leu Phe Leu Asp Thr Thr Phe Arg Phe Ile Phe Gly Lys
 20 25 30
 Thr Phe Thr Asn His Asp Tyr Ile Ser Ile His Phe Tyr Phe Leu Lys
 35 40 45

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Ala Phe Leu Phe Ser Phe Phe Tyr Ser Asn Val
 50 55

<210> 435
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 435
 Ser Leu Gln Tyr Arg Ile Arg Ile Pro Gly Arg Pro Thr
 1 5 10

<210> 436
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 436
 Asp Leu Val Thr Tyr Thr Ser Ser Leu Gln Tyr Arg Ile Arg Ile Pro
 1 5 10 15

Gly Arg Pro Thr Arg Pro
 20

<210> 437
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 437
 Leu Gly Asn Lys Lys Tyr Ile Asn Ile Arg Cys Leu Glu Met Gln Val
 1 5 10 15

Thr Leu Lys Ile Leu Cys Glu Ile Glu Lys Lys Glu Arg Arg Gly Thr
 20 25 30

His Cys Leu Val
 35

<210> 438
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 438
 Val Lys Thr Ala Glu Cys Tyr Ser Ile Pro Leu Gly Ser Cys Pro Val
 1 5 10 15

Asn Ile Gln Arg Val Arg
 20

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<210> 439
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 439
 His Lys Cys Phe Gln Cys Phe Ile Leu Ala Asn Gly Phe Leu Lys Val
 1 5 10 15
 Ile Lys Pro Phe Gln Arg Asn Trp Ser Asp Lys Thr Phe Phe Leu Val
 20 25 30
 Cys Leu Asn Lys Ala Ile Ser Glu Ala Leu Leu Ser Lys Met Thr Phe
 35 40 45
 Leu Ser Phe Phe Lys Thr Asn Leu Leu Leu Glu Thr Phe Cys Thr
 50 55 60
 Ile
 65

<210> 440
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 440
 Leu Leu Gly Val Leu Lys Pro Leu Tyr Phe Ser Val Glu Pro Val Leu
 1 5 10 15
 Gly Glu Arg Ser Val Ala Phe Glu Glu Val Arg Glu Lys Asn His Gly
 20 25 30
 Thr Ser Gly Phe Leu Ser Leu Tyr Ser Leu Ala Ala Ile Val Cys Gly
 35 40 45
 His Leu Met Phe Phe His Thr Leu Leu Gly Arg Gly Gly Asn Asp His
 50 55 60
 Pro Gly Gln Ser Pro Leu Pro Gly Met Arg Pro Leu Arg Gly Gly Leu
 65 70 75 80
 Ala Gly Gln Ala Pro Ser Gly His Pro Trp Met Gln Pro Leu Asp Thr
 85 90 95
 Cys Leu Leu

<210> 441
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 441
 Arg Pro Thr Arg Pro Pro Thr Arg Pro Asp Arg Pro Ser Leu Glu Leu
 1 5 10 15

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Ala Pro Gly Leu Cys Ala Asp Phe Leu Gly Ser Ser Asn His Cys Ile
 20 25 30

Phe Leu Leu Ser Leu Tyr Leu Gly Arg Asp Gln
 35 40

<210> 442

<211> 49

<212> PRT

<213> Homo sapiens

<400> 442

Glu Lys Arg Ile Met Val Pro Gln Gly Phe Phe Pro Phe Thr Arg Trp
 1 5 10 15

Gln Pro Leu Ser Val Gly Thr Ser Cys Phe Ser Thr Leu Tyr Trp Ala
 20 25 30

Val Glu Val Thr Ile Thr Gln Ala Ser Leu Leu Cys Leu Gly Cys Ala
 35 40 45

Leu

<210> 443

<211> 30

<212> PRT

<213> Homo sapiens

<400> 443

Asn Ser Ala Arg Val Thr Gln Lys Gly Glu Ser Val Gly Ser Val Gly
 1 5 10 15

Cys Met Arg Ala Ile Ala Gly Phe Asp Asn Tyr Pro Leu Phe
 20 25 30

<210> 444

<211> 33

<212> PRT

<213> Homo sapiens

<400> 444

Gly Thr Ile Gly Ile Phe Trp Pro Leu Pro Val Ala Ile Leu Ser Ser
 1 5 10 15

Gly Asp Tyr Leu Gln Thr Gln Ile His Arg Pro Leu Leu His Arg Gly
 20 25 30

Thr

<210> 445

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<211> 20
 <212> PRT
 <213> Homo sapiens

<400> 445
 Leu Pro Leu Pro Leu Ser Ser Leu Leu His Ile Ala Thr Cys Asn Pro
 1 5 10 15

Phe Pro Lys Thr
 20

<210> 446
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 446
 Ser Tyr Phe Phe Val Tyr Asn Leu Ile Leu Lys Ile Ile Gln Gly Asp
 1 5 10 15

His Ala Ser Ile Ile Leu Leu Ala Thr Ile Pro Ile Phe Gly Asp Ile
 20 25 30

Tyr Tyr Val Lys Gly Gln Leu Ala Ser Phe Gly Pro Tyr Leu
 35 40 45

<210> 447
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 447
 Leu Phe Tyr His Leu Glu Ile Ile Ser Arg His Lys Ser Ile Ala His
 1 5 10 15

Cys Ser Ile Glu Ala
 20

<210> 448
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 448
 Cys Ser Cys His Cys Pro Ser Arg Ala Phe Ser Thr
 1 5 10

<210> 449
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 449

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185

Pro His Ala Ile His Ser Gln Lys Pro Ser Ser Ile Phe Leu Ile Thr
 1 5 10 15

Asp Val Phe Pro Asp Pro Pro Val Gly Ile Tyr Leu Leu
 20 25

<210> 450

<211> 15

<212> PRT

<213> Homo sapiens

<400> 450

Thr Arg Pro Thr Met Pro Asn Phe Leu Trp Phe Pro Lys Cys Ala
 1 5 10 15

<210> 451

<211> 35

<212> PRT

<213> Homo sapiens

<400> 451

Arg Asn Ser Leu His Cys Tyr Asn Glu Gln Pro Pro Asn Ala Ser Gly
 1 5 10 15

Leu Ile Gln Trp Ser Ser Asp Leu Ile Pro Ile Ser Leu Gln Cys Gly
 20 25 30

Cys Ser Trp
 35

<210> 452

<211> 15

<212> PRT

<213> Homo sapiens

<400> 452

Ile Arg His Glu Glu Lys Gly Gly Lys Ala Gln Arg Trp Ala Glu
 1 5 10 15

<210> 453

<211> 62

<212> PRT

<213> Homo sapiens

<400> 453

Val Asp Pro Arg Val Arg Leu Pro Leu Phe Trp Trp Gln Pro Ser Cys
 1 5 10 15

Ala Val Tyr Leu Phe Pro Arg Val Tyr Asn Asn Met Cys Thr Arg Val
 20 25 30

Leu Gly Thr Leu Pro His Cys Trp Asp Leu Ala Thr Leu Leu Gln Pro
 35 40 45

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Ser Ser Arg Ile Trp Gly Asn Val Ser Glu Ala Pro Gly Met
 50 55 60

<210> 454
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 454
 Val Pro Tyr His Ile Ala Gly Thr Leu Pro His Cys Cys Ser Leu Pro
 1 5 10 15

Val Gly Tyr Gly Gly Met Ser Val Arg Leu Gln Gly Cys Arg Tyr Val
 20 25 30

Gly Asn Val Gly Pro Gln Gly Asn Met Gln Ser Gly Arg Ser Trp Ala
 35 40 45

Leu Lys Met Val Leu Leu Cys Asn Ser Cys Leu Gly Leu Gly Val Gly
 50 55 60

Ser Val Gly Pro Ser Met Ser Ser Leu Phe Gly Ala Val Leu Ser Glu
 65 70 75 80

Thr Pro Gly Ser Ser Val Tyr
 85

<210> 455
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 455
 Met Leu Asp Pro Arg Ala Thr Cys Asn Leu Val Gly Val Gly Leu Ser
 1 5 10 15

Lys Trp Cys Cys Cys Val Thr Ala Ala Trp Val Leu Gly
 20 25

<210> 456
 <211> 86
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 456
 Pro Gln Ile Lys Leu Leu Asn Ser Asp Ala Leu Gly Met Arg Thr Thr
 1 5 10 15

Ser Xaa Asp Leu Val Pro Cys Asn Gln Cys Phe Ile Pro Leu Pro Pro

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20

25

30

Ser Cys Asn Arg Ile Ala Ser Arg Lys Ala Val Asn Trp Lys Gln Gln
35 40 45

Arg Leu Pro Ala Val Arg Gly Leu Leu Asn Asn Ala Pro His Arg Arg
50 55 60

Pro Pro Thr Pro Arg Thr Pro Cys Val Phe Pro Ser Glu Gly Pro Lys
65 70 75 80

Gly Tyr Gly Phe His Val
85

<210> 457

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 457

Glu Gln Leu Ala Xaa Ile Ser Cys Arg Val Ile Asn Val Ser Phe Arg
1 5 10 15

Cys Leu His His Val Ile Glu Ser Leu Pro Glu Arg Gln Leu Thr Gly
20 25 30

Ser Ser Arg Gly Ser Gln Pro
35

<210> 458

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 458

Glu Asp Cys Ser Thr Met Pro Pro Ile Ala Ala Pro Pro Pro Leu Ala
1 5 10 15

Pro Leu Val Phe Ser Pro Leu Arg Gly Pro Arg Val Met Ala Phe Met
20 25 30

Ser Arg Cys Gly Asp Arg Gly Gly Arg Gly Arg Ser Xaa Ala Gly Arg
35 40 45

Gly Trp Pro Trp Ser Glu Ser Gly Val Ile Asn Ala His Pro Lys Lys
50 55 60

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Arg Pro Cys Pro Gly Pro Met Leu Ser
65 70

<210> 459
<211> 48
<212> PRT
<213> Homo sapiens

<400> 459
Glu Phe Gly Thr Arg Arg Gln Trp Gly Thr Arg Cys Phe Pro Pro Leu
1 5 10 15

Val Gly Arg Lys Gln Ser Ala Leu Arg Arg Glu Gly Lys Ala Arg
20 25 30

Ala Gly Arg Cys Cys Gly Lys Arg Ser Val Lys Ala Gly Phe Asp Ala
35 40 45

<210> 460
<211> 34
<212> PRT
<213> Homo sapiens

<400> 460
Pro Lys Val Leu Ala Val Leu Lys Lys Lys Asn His Val Ala Leu Ser
1 5 10 15

Ile Phe Glu Leu Leu Ser Asn Asp Ile Cys Ser Phe Ile Ser Phe Phe
20 25 30

Met Ser

<210> 461
<211> 28
<212> PRT
<213> Homo sapiens

<400> 461
Glu Gly Pro Asp Ile Asn Ser Asn Leu Lys Phe Leu Leu Cys Leu Lys
1 5 10 15

Lys Lys Ile Met Trp Pro Phe Gln Tyr Leu Asn Cys
20 25

<210> 462
<211> 47
<212> PRT
<213> Homo sapiens

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<400> 462

Leu Leu Ser Leu Ile Leu Leu Arg Ile Trp Tyr Asp Phe Ser Lys Gln
 1 5 10 15

Thr Val Phe Trp Phe Phe Leu Asn Val Phe Asn Phe Phe Ser Ser Cys
 20 25 30

Asn Asn Asp Gly Ala Cys Ser Tyr Lys Tyr Arg Lys Val Gln Ile
 35 40 45

<210> 463

<211> 48

<212> PRT

<213> Homo sapiens

<400> 463

Arg Lys Leu Phe His Lys Ile Asn Ser Lys Ser Phe His Leu Ser Gly
 1 5 10 15

Met His Ile Leu Ile Ser Val Trp Ile Val Arg Ser Arg Ile Ile Lys
 20 25 30

Val Lys Tyr Glu Leu Leu Leu Cys Phe Phe Asp Val Ile Phe Tyr Val
 35 40 45

<210> 464

<211> 41

<212> PRT

<213> Homo sapiens

<400> 464

Asn Ser Ala Arg Asp Val Phe Phe Thr Gln Lys Ile Leu Tyr Ser Gln
 1 5 10 15

Thr Cys Ile Phe Phe Pro Cys Leu Val Pro Phe Ser Phe Leu Phe Ser
 20 25 30

Phe Phe Phe Phe Leu Ser Phe Val Gly
 35 40

<210> 465

<211> 56

<212> PRT

<213> Homo sapiens

<400> 465

Met Phe Ser Ser Leu Lys Lys Phe Tyr Ile Leu Lys His Val Tyr Ser
 1 5 10 15

Phe Pro Val Leu Phe His Phe Leu Phe Phe Phe Leu Phe Ser Phe Ser
 20 25 30

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Phe Leu Ser Trp Ala Glu Lys Gly Ala Gly Lys Met Lys Leu Ala Thr
 35 40 45

Glu Asn Cys Lys Met Val Lys Ser
 50 55

<210> 466
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 466
 Ile Gln Leu Leu Tyr Leu Lys Gly Ala Ala Met Lys Tyr Leu Ser Tyr
 1 5 10 15

Val Ala Arg Leu Leu Phe Leu Lys Ala Leu Asp Leu Phe Ala Pro Lys
 20 25 30

Met Val Gln Ile Asp Ser Phe
 35

<210> 467
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 467
 Val Asp Pro Arg Val Arg Arg Phe Trp Glu Asp Pro Glu Tyr Pro Pro
 1 5 10 15

Val Ala Val Met Ser Arg Leu Met Leu Arg Arg Ile Pro Thr Val Met
 20 25 30

Ser Asn Thr His Arg Thr Gln Pro Ser Thr Trp Glu Gln Ile Lys Lys
 35 40 45

Leu Ser Gln Met Val Gly Glu Asn Leu Arg Lys Ala Gly Gln Pro Val
 50 55 60

Thr
 65

<210> 468
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 468
 Val Arg Arg Phe Trp Glu Asp Pro Glu Tyr Pro Pro Val Ala Val Met
 1 5 10 15

Ser Arg Leu Met Leu Arg Arg Ile Pro
 20 25

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<210> 469
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 469
 Ser Asn Thr His Arg Thr Gln Pro Ser Thr Trp Glu Gln Ile Lys Lys
 1 5 10 15
 Leu Ser Gln Met Val Gly Glu Asn Leu Arg Lys
 20 25

<210> 470
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 470
 Ser Ala Cys His Ser His Thr Val Phe Asn Trp Ser Glu Gln Asn Gly
 1 5 10 15
 Gln Met Val Gln Met Val Arg Arg Met Ala Arg Val Pro Ile Ile Trp
 20 25 30
 Asn His Gly Ser Ile Gly Ala Pro Gln Pro Gln Met Ile Trp Pro Ile
 35 40 45
 Val Gly Ala Lys His Lys Asp Leu Trp Gln Leu Leu Ile Ala Leu Asn
 50 55 60
 Lys Ile Lys Ile Trp Glu Arg Ile Lys Lys His Leu Glu Gly His Ser
 65 70 75 80
 Ala Asn Leu Ser Leu Asp Ile Ala Lys Tyr Ile Tyr Ile Phe Lys Ala
 85 90 95
 Ser Gln Ala His Leu Thr Leu Met Pro Glu Leu Glu Cys Ser Lys Glu
 100 105 110
 Leu Gln Thr Asp
 115

<210> 471
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 471
 Met Ala Arg Val Pro Ile Ile Trp Asn His Gly Ser Ile Gly Ala Pro
 1 5 10 15
 Gln Pro Gln Met Ile Trp Pro Ile Val
 20 25

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<210> 472
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 472
 Arg Ile Lys Lys His Leu Glu Gly His Ser Ala Asn Leu Ser Leu Asp
 1 5 10 15
 Ile Ala Lys Tyr Ile Tyr Ile Phe Lys Ala Ser Gln Ala His Leu Thr
 20 25 30

<210> 473
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 473
 Val Phe Leu Gln Gln Gly Leu Thr Gln Arg Ser Val Ile Leu Ile Gly
 1 5 10 15
 His Ile Cys Gln Phe Trp Leu Ala Ile Met Pro Gly Tyr Asn His Phe
 20 25 30
 Met Thr Gln Leu His Met Leu Ser Gly Leu Asn Ile Tyr His Asn Lys
 35 40 45
 Ser Ala Pro Ile Ile Glu Ala Tyr His Pro Gln Lys Ser Ile Cys Lys
 50 55 60
 Gln Asn
 65

<210> 474
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 474
 Ile Gly His Ile Cys Gln Phe Trp Leu Ala Ile Met Pro Gly Tyr Asn
 1 5 10 15
 His Phe Met Thr Gln Leu His Met Leu Ser Gly Leu
 20 25

<210> 475
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 475
 Ser Ile Pro Gly Thr Pro Asp Leu Asn Ala Arg Thr Gly Val Leu Glu

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1 5 10 15
 Gly Ala Ala Asp Arg Leu Ala Ala Ser Asn Pro Leu Lys Trp Ile Lys
 20 25 30
 Thr Leu Arg Ser Ser Val Ile Ser Met Met Ile Val Leu Leu Ile Cys
 35 40 45
 Val Val Cys Leu Tyr Ile Val Cys Arg Cys
 50 55

<210> 476
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 476
 Val Leu Glu Gly Ala Ala Asp Arg Leu Ala Ala Ser Asn Pro Leu Lys
 1 5 10 15
 Trp Ile Lys Thr Leu Arg Ser Ser Val Ile Ser
 20 25

<210> 477
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 477
 Leu Thr Val Thr Lys Leu Pro Trp Leu Phe Ile Ala Leu Gln Asn Lys
 1 5 10 15
 Arg Met Gly Thr Ser Trp Glu Gln Ala Pro Lys Ser Gly His Lys Leu
 20 25 30
 Ala Pro Lys Leu Val Ile Asn Lys Ile Ser Ala Ala Leu Ser His Ala
 35 40 45
 Cys Asp Ser Leu Thr Pro Thr Leu Glu Gly Cys Arg Phe Thr Gly Met
 50 55 60
 Arg Ala Arg Asn Asn Trp Pro Thr Gln Gly Gly
 65 70 75

<210> 478
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 478
 Met Gly Thr Ser Trp Glu Gln Ala Pro Lys Ser Gly His Lys Leu Ala
 1 5 10 15
 Pro Lys Leu Val Ile Asn Lys Ile Ser Ala Ala Leu Ser
 20 25

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<210> 479
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 479
 Ser Thr His Ala Ser Val Gln Lys Lys Asp Leu Thr Lys Phe Ser Ala
 1 5 10 15
 His Ser Trp Leu Lys Lys Lys Lys Thr Phe Arg Lys Met Ile Met Glu
 20 25 30
 Glu Ile Phe Leu Asn Leu Ile Lys Asn Ile Tyr Lys Ser Pro Tyr Ser
 35 40 45
 Gln Cys Asn Thr
 50

<210> 480
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 480
 Val Arg Ser Glu Lys Gly Phe Asp Lys Ile Gln Cys Pro Phe Met Val
 1 5 10 15
 Lys

<210> 481
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 481
 Phe Ser Lys Pro Ser Ser Tyr Lys Thr Tyr Ile Pro Lys Ile Asn Leu
 1 5 10 15
 His Phe Tyr Ile Leu Leu Met Asn Ile Trp Glu Thr Ile Lys Ile Val
 20 25 30
 Pro Leu Asn Asn Cys Phe Thr Lys Met Asn Tyr Leu Gly Ile
 35 40 45

<210> 482
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 482
 Lys Lys Glu Thr Lys Leu Ser Leu Phe Ala Asn Asp Met Ile

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5

10

<210> 483
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 483
 Ser Pro Leu Leu Phe Asn Ile Leu Leu Glu Val Leu Ser Ser Ala Val
 1 5 10 15

Arg Lys Glu Lys Glu Leu Lys
 20

<210> 484
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 484
 Leu Cys Ala Val Glu Lys Thr Arg Thr Phe Thr Arg Gly Asp Cys Gly
 1 5 10 15

Pro Asn Arg His His Lys His Val Leu Lys Ala Lys Asp Asn Asn His
 20 25 30

Ile Gln Arg His Gln Phe Ser Ser Thr Leu Glu Phe Ser Ser Asn Ser
 35 40 45

Thr Asp Gly Leu Lys Tyr Ile Cys Val Tyr Leu Tyr Val Cys Thr His
 50 55 60

Pro Cys Ile Tyr Ile Tyr Leu Ser Ala His Thr Leu His Met Tyr Thr
 65 70 75 80

His Tyr Leu Cys Lys Ile
 85

<210> 485
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 485
 Ser Ser Thr Leu Glu Phe Ser Ser Asn Ser Thr Asp Gly Leu Lys Tyr
 1 5 10 15

Ile Cys Val Tyr Leu Tyr Val Cys Thr His Pro Cys Ile Tyr
 20 25 30

<210> 486
 <211> 69
 <212> PRT

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<213> Homo sapiens

<400> 486

Ser Thr Ser Val Cys Ile Cys Thr Cys Ala His Thr His Val Tyr Ile
 1 5 10 15

Phe Ile Tyr Leu His Thr His Tyr Ile Cys Ile His Thr Ile Tyr Val
 20 25 30

Lys Tyr Asn Ile Cys Ile Met His Ile Asn Ser Asn Lys Cys Ile Cys
 35 40 45

Val Ile Phe Lys Ile Glu Gln Leu Tyr Leu Glu Val Val Asn Ala Glu
 50 55 60

Asn Trp Phe Tyr Cys
 65

<210> 487

<211> 31

<212> PRT

<213> Homo sapiens

<400> 487

Ile His Thr Ile Tyr Val Lys Tyr Asn Ile Cys Ile Met His Ile Asn
 1 5 10 15

Ser Asn Lys Cys Ile Cys Val Ile Phe Lys Ile Glu Gln Leu Tyr
 20 25 30

<210> 488

<211> 9

<212> PRT

<213> Homo sapiens

<400> 488

Asn Ser Ala Val Thr Val Gln Met Ala
 1 5

<210> 489

<211> 24

<212> PRT

<213> Homo sapiens

<400> 489

Lys Tyr Leu Val Ser Ser Val Leu Pro Thr Ile Ser Met Ala Arg Ser
 1 5 10 15

Leu Ile Ser Ala Leu Arg Ser Gly
 20

<210> 490

<211> 43

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<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 490
 Val Xaa Asp Ile Thr Phe Asp Pro Asp Thr Ala His Lys Tyr Leu Arg
 1 5 10 15
 Leu Gln Glu Glu Asn Arg Lys Val Thr Asn Thr Thr Pro Trp Glu His
 20 25 30
 Pro Tyr Pro Asp Leu Pro Ser Arg Phe Leu His
 35 40

<210> 491
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 491
 Leu Tyr Leu His Arg Tyr Tyr Phe Glu Val Glu Ile Phe Gly Ala Gly
 1 5 10 15
 Thr Tyr Val

<210> 492
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 492
 Ser Cys Ile Ser Gly Asn Asn Phe Ser Trp Ser Leu Gln Trp Asn Gly
 1 5 10 15
 Lys Glu Phe Thr Ala Trp
 20

<210> 493
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 493
 Thr Pro Leu Lys Ala Gly Pro Phe Trp Ser Ser Gly Ser Ile Leu Thr
 1 5 10 15
 Ser

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<210> 494
 <211> 39
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 494
 Ser Val Ser Glu Val Lys Ala Val Ala Glu Met Gln Phe Gly Glu Leu
 1 5 10 15
 Leu Ala Ala Val Arg Lys Ala Gln Ala Asn Val Met Leu Phe Leu Xaa
 20 25 30
 Glu Lys Glu Gln Ala Ala Leu
 35

<210> 495
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 495
 Glu Lys Ser Lys Gln Glu Leu Glu Thr Met Ala Ala Ile Ser Asn Thr
 1 5 10 15
 Val Gln Phe Leu Glu Glu Tyr Cys Lys Phe Lys Asn Thr Glu Asp Ile
 20 25 30
 Thr Phe Pro Ser Val Tyr Ile Gly Leu Lys Asp
 35 40

<210> 496
 <211> 29
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 496
 Leu Glu Asn Tyr Lys Lys Lys Leu Gln Glu Phe Ser Lys Glu Glu Glu
 1 5 10 15
 Tyr Asp Ile Arg Thr Gln Val Ser Ala Xaa Val Gln Arg
 20 25

<210> 497
 <211> 38

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<212> PRT
 <213> Homo sapiens

<400> 497
 Gly Val Tyr Ile Asp Phe Pro Gly Gly Ile Leu Ser Phe Tyr Gly Val
 1 5 10 15
 Glu Tyr Asp Ser Met Thr Leu Val His Lys Phe Ala Cys Lys Phe Ser
 20 25 30
 Glu Pro Val Tyr Ala Ala
 35

<210> 498
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 498
 Gly Thr Val Ser Arg Glu Arg Arg Ala Gly
 1 5 10

<210> 499
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 499
 His Gly Asp Pro Thr Gln Ser Trp Pro Phe Leu Glu Leu Gly Val Tyr
 1 5 10 15
 Ile Asp Phe Pro Gly Gly Ile Leu Ser Phe Tyr Gly Val Glu Tyr Asp
 20 25 30
 Ser Met Thr Leu Val His Lys Phe Ala Cys Lys Phe Ser Glu Pro Val
 35 40 45
 Tyr Ala Ala Phe Trp Leu Ser Lys Lys Glu Asn Ala Ile Arg Ile Val
 50 55 60
 Asp Leu Gly Glu Glu Pro Glu Lys Pro Ala Pro Ser Leu Val Gly Thr
 65 70 75 80
 Ala Pro

<210> 500
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 500
 Ser Phe Tyr Gly Val Glu Tyr Asp Ser Met Thr Leu Val His Lys Phe
 1 5 10 15

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Ala Cys Lys Phe Ser Glu Pro Val Tyr Ala Ala Phe Trp Leu
 20 25 30

<210> 501
 <211> 337
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (150)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (151)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (177)
 <223> Xaa equals any of the naturally occurring L-amino acids

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 <222> (200)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (278)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (284)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 501
 Ala Glu Leu Gln Cys Thr Gln Leu Asp Leu Glu Arg Lys Leu Lys Leu
 1 5 10 15

Asn Glu Asn Ala Ile Ser Arg Leu Gln Ala Asn Gln Lys Ser Val Leu
 20 25 30

Val Ser Val Ser Glu Val Lys Ala Val Ala Glu Met Gln Phe Gly Glu
 35 40 45

Leu Leu Ala Ala Val Arg Lys Ala Gln Ala Asn Val Met Leu Phe Leu
 50 55 60

Xaa Glu Lys Glu Gln Ala Ala Leu Ser Gln Ala Asn Gly Ile Lys Ala
 65 70 75 80

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His Leu Glu Tyr Lys Ser Ala Glu Met Glu Lys Ser Lys Gln Glu Leu
 85 90 95
 Glu Thr Met Ala Ala Ile Ser Asn Thr Val Gln Phe Leu Glu Glu Tyr
 100 105 110
 Cys Lys Phe Lys Asn Thr Glu Asp Ile Thr Phe Pro Ser Val Tyr Ile
 115 120 125
 Gly Leu Lys Asp Lys Leu Ser Gly Ile Arg Lys Val Ile Thr Glu Ser
 130 135 140
 Thr Val His Leu Ile Xaa Xaa Leu Glu Asn Tyr Lys Lys Lys Leu Gln
 145 150 155 160
 Glu Phe Ser Lys Glu Glu Glu Tyr Asp Ile Arg Thr Gln Val Ser Ala
 165 170 175
 Xaa Val Gln Arg Lys Tyr Trp Thr Ser Lys Pro Glu Pro Ser Thr Arg
 180 185 190
 Glu Gln Phe Leu Gln Tyr Val Xaa Asp Ile Thr Phe Asp Pro Asp Thr
 195 200 205
 Ala His Lys Tyr Leu Arg Leu Gln Glu Glu Asn Arg Lys Val Thr Asn
 210 215 220
 Thr Thr Pro Trp Glu His Pro Tyr Pro Asp Leu Pro Ser Arg Phe Leu
 225 230 235 240
 His Trp Arg Gln Val Leu Ser Gln Gln Ser Leu Tyr Leu His Arg Tyr
 245 250 255
 Tyr Phe Glu Val Glu Ile Phe Gly Ala Gly Thr Tyr Val Gly Leu Thr
 260 265 270
 Cys Lys Gly Ile Asp Xaa Lys Gly Glu Glu Arg Xaa Ser Cys Ile Ser
 275 280 285
 Gly Asn Asn Phe Ser Trp Ser Leu Gln Trp Asn Gly Lys Glu Phe Thr
 290 295 300
 Ala Trp Tyr Ser Asp Met Glu Thr Pro Leu Lys Ala Gly Pro Phe Trp
 305 310 315 320
 Ser Ser Gly Ser Ile Leu Thr Ser Gln Glu Gly Ser Phe Pro Ser Met
 325 330 335
 Ala

<210> 502
 <211> 301
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (250)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (300)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 502

Arg Thr Ala Pro Tyr Gly Ala Lys Glu Ser Ser Trp Arg Met Phe Ser
1 5 10 15

Phe Arg Asp Pro Ile Gly Phe Gln Lys Pro Ala Thr Ile Ser Ser Tyr
20 25 30

Phe Cys Pro Gln Ile Thr Leu Lys Cys Lys Ser His His Cys Ser Trp
35 40 45

Gln Arg Ser Gly Ile Trp Leu Leu Glu Ser Arg Glu Gln Ser Pro Pro
50 55 60

Arg Thr Val Leu Ala Ser Arg Val Pro Leu Pro Asp Leu Gln Ser Gly
65 70 75 80

Trp Arg Phe Pro Ser Trp Lys Ala Arg Arg Gln His Arg Leu Val Leu
85 90 95

Lys Thr Cys Arg Gln Thr Cys Glu Pro Glu Ser Trp Asn His Thr Leu
100 105 110

Arg His Arg Arg Lys Gly Ser Leu Leu Gly Ser Gln Tyr Arg Pro Arg
115 120 125

Ala Pro Glu Arg Ala Ser Phe Glu Trp Gly Leu His Val Thr Val Pro
130 135 140

Gly Arg Glu Leu Leu Pro Val Pro Leu Glu Ala Pro Gly Glu Val Val
145 150 155 160

Ser Gly Asn Ala Thr Xaa Ala Leu Leu Pro Phe Xaa Val Asp Ala Phe
165 170 175

Ala Gly Gln Ala Asn Ile Gly Ala Cys Pro Glu Asp Leu His Leu Lys
180 185 190

Ile Val Pro Val Gln Val Gln Thr Leu Leu Gly Gln His Leu Pro Pro
195 200 205

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Val Gln Glu Pro Ala Gly Glu Val Arg Val Gly Met Leu Pro Gly Arg
210 215 220

Gly Val Gly Asp Leu Ala Val Leu Leu Leu Gln Pro Glu Ile Leu Val
225 230 235 240

Cys Cys Val Arg Val Glu Arg Asp Val Xaa His Ile Leu Glu Glu Leu
245 250 255

Phe Pro Gly Ala Gly Leu Arg Phe Gly Ser Pro Ile Phe Ala Leu Asn
260 265 270

Asn Gly Arg His Leu Ser Ser Asp Val Ile Leu Leu Phe Leu Gly Lys
275 280 285

Leu Leu Glu Leu Phe Leu Ile Val Leu Gln Xaa Xaa Asp
290 295 300

<210> 503

<211> 196

<212> PRT

<213> Homo sapiens

<400> 503

Ser Lys Ile Lys Tyr Asp Trp Tyr Gln Thr Glu Ser Gln Val Val Ile
1 5 10 15

Thr Leu Met Ile Lys Asn Val Gln Lys Asn Asp Val Asn Val Glu Phe
20 25 30

Ser Glu Lys Glu Leu Ser Ala Leu Val Lys Leu Pro Ser Gly Glu Asp
35 40 45

Tyr Asn Leu Lys Leu Glu Leu Leu His Pro Ile Ile Pro Glu Gln Ser
50 55 60

Thr Phe Lys Val Leu Ser Thr Lys Ile Glu Ile Lys Leu Lys Lys Pro
65 70 75 80

Glu Ala Val Arg Trp Glu Lys Leu Glu Gly Gln Gly Asp Val Pro Thr
85 90 95

Pro Lys Gln Phe Val Ala Asp Val Lys Asn Leu Tyr Pro Ser Ser Ser
100 105 110

Pro Tyr Thr Arg Asn Trp Asp Lys Leu Val Gly Glu Ile Lys Glu Glu
115 120 125

Glu Lys Asn Glu Lys Leu Glu Gly Asp Ala Ala Leu Asn Arg Leu Phe
130 135 140

Gln Gln Ile Tyr Ser Asp Gly Ser Asp Glu Val Lys Arg Ala Met Asn
145 150 155 160

Lys Ser Phe Met Glu Ser Gly Gly Thr Val Leu Ser Thr Asn Trp Ser
165 170 175

Asp Val Gly Lys Arg Lys Val Glu Ile Asn Pro Pro Asp Asp Met Glu

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180 185 190
 Trp Lys Lys Tyr
 195

 <210> 504
 <211> 39
 <212> PRT
 <213> Homo sapiens

 <400> 504
 Gly Asp Ala Ala Leu Asn Arg Leu Phe Gln Gln Ile Tyr Ser Asp Gly
 1 5 10 15
 Ser Asp Glu Val Lys Arg Ala Met Asn Lys Ser Phe Met Glu Ser Gly
 20 25 30
 Gly Thr Val Leu Ser Thr Asn
 35

 <210> 505
 <211> 23
 <212> PRT
 <213> Homo sapiens

 <400> 505
 Asp Trp Tyr Gln Thr Glu Ser Gln Val Val Ile Thr Leu Met Ile Lys
 1 5 10 15
 Asn Val Gln Lys Asn Asp Val
 20

 <210> 506
 <211> 146
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 506
 Met Ala Ala Ala Ala Gly Thr Xaa Xaa Ser Gln Arg Phe Phe Gln
 1 5 10 15
 Ser Phe Ser Asp Ala Leu Ile Asp Glu Asp Pro Gln Ala Ala Leu Glu
 20 25 30
 Glu Leu Thr Lys Ala Leu Glu Gln Lys Pro Asp Asp Ala Gln Tyr Tyr


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<210> 507
<211> 38
<212> PRT
<213> Homo sapiens

<400> 507
Leu Glu Glu Leu Thr Lys Ala Leu Glu Gln Lys Pro Asp Asp Ala Gln
 1             5             10             15
Tyr Tyr Cys Gln Arg Ala Tyr Cys His Ile Leu Leu Gly Asn Tyr Cys
          20             25             30
Val Ala Val Ala Asp Ala
      35

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<210> 508
<211> 31
<212> PRT
<213> Homo sapiens

<400> 508
Ala Met Leu Arg Lys Gly Ile Cys Glu Tyr His Glu Lys Asn Tyr Ala
  1             5             10             15

Ala Ala Leu Glu Thr Phe Thr Glu Gly Gln Lys Leu Asp Ser Ala
      20             25             30

<210> 509
<211> 37
<212> PRT
<213> Homo sapiens

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<400> 509

Leu Arg Leu Trp Asn Arg Asn Gln Met Met His Ser Ile Ile Val Lys
 1 5 10 15

Glu Leu Ile Val Thr Phe Phe Leu Gly Ile Thr Val Leu Leu Leu Leu
 20 25 30

Met Gln Arg Ser Leu
 35

<210> 510

<211> 10

<212> PRT

<213> Homo sapiens

<400> 510

Asn Ser Ile Gln Ile Ile Pro Leu Leu Cys
 1 5 10

<210> 511

<211> 228

<212> PRT

<213> Homo sapiens

<400> 511

Tyr Met His Phe Asn Asn Thr Val Ala Lys Leu Thr Cys Lys Asn Leu
 1 5 10 15

Ser Leu Ser Thr Tyr Gln Asn Gln Ser Ala Ser Gln Trp Thr His Gln
 20 25 30

Ser Lys Ile Lys Tyr Asp Trp Tyr Gln Thr Glu Ser Gln Val Val Ile
 35 40 45

Thr Leu Met Ile Lys Asn Val Gln Lys Asn Asp Val Asn Val Glu Phe
 50 55 60

Ser Glu Lys Glu Leu Ser Ala Leu Val Lys Leu Pro Ser Gly Glu Asp
 65 70 75 80

Tyr Asn Leu Lys Leu Glu Leu Leu His Pro Ile Ile Pro Glu Gln Ser
 85 90 95

Thr Phe Lys Val Leu Ser Thr Lys Ile Glu Ile Lys Leu Lys Lys Pro
 100 105 110

Glu Ala Val Arg Trp Glu Lys Leu Glu Gly Gln Gly Asp Val Pro Thr
 115 120 125

Pro Lys Gln Phe Val Ala Asp Val Lys Asn Leu Tyr Pro Ser Ser Ser
 130 135 140

Pro Tyr Thr Arg Asn Trp Asp Lys Leu Val Gly Glu Ile Lys Glu Glu
 145 150 155 160

Glu Lys Asn Glu Lys Leu Glu Gly Asp Ala Ala Leu Asn Arg Leu Phe
 165 170 175

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Gln Gln Ile Tyr Ser Asp Gly Ser Asp Glu Val Lys Arg Ala Met Asn
180 185 190

Lys Ser Phe Met Glu Ser Gly Gly Thr Val Leu Ser Thr Asn Trp Ser
195 200 205

Asp Val Gly Lys Arg Lys Val Glu Ile Asn Pro Pro Asp Asp Met Glu
210 215 220

Trp Lys Lys Tyr
225

<210> 512

<211> 29

<212> PRT

<213> Homo sapiens

<400> 512

Thr Cys Lys Asn Leu Ser Leu Ser Thr Tyr Gln Asn Gln Ser Ala Ser
1 5 10 15

Gln Trp Thr His Gln Ser Lys Ile Lys Tyr Asp Trp Tyr
20 25

<210> 513

<211> 24

<212> PRT

<213> Homo sapiens

<400> 513

Glu Lys Glu Leu Ser Ala Leu Val Lys Leu Pro Ser Gly Glu Asp Tyr
1 5 10 15

Asn Leu Lys Leu Glu Leu Leu His
20

<210> 514

<211> 29

<212> PRT

<213> Homo sapiens

<400> 514

Leu His Pro Ile Ile Pro Glu Gln Ser Thr Phe Lys Val Leu Ser Thr
1 5 10 15

Lys Ile Glu Ile Lys Leu Lys Lys Pro Glu Ala Val Arg
20 25

<210> 515

<211> 24

<212> PRT

<213> Homo sapiens

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<400> 515
 Lys Gln Phe Val Ala Asp Val Lys Asn Leu Tyr Pro Ser Ser Ser Pro
 1 5 10 15

Tyr Thr Arg Asn Trp Asp Lys Leu
 20

<210> 516
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 516
 Ser Ile Leu Pro Val Glu Met Ala Ala Val Ala Gly Met Leu Arg
 1 5 10 15

Gly Gly Leu Leu Pro Gln Ala Gly Arg Leu Pro Thr Leu Gln Thr Val
 20 25 30

Arg Tyr Gly Ser Lys Ala Val Thr Arg His Arg Arg Val
 35 40 45

<210> 517
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 517
 Ala Gly Met Leu Arg Gly Gly Leu Leu Pro Gln Ala Gly Arg Leu Pro
 1 5 10 15

Thr Leu Gln Thr Val Arg Tyr Gly Ser Lys
 20 25

<210> 518
 <211> 52
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 518
 Asp Cys Asn Arg Asp Tyr His Lys Ala Phe Gly Asn Leu Arg Ser Pro
 1 5 10 15

Gly Trp Pro Asp Asn Tyr Asp Asn Asp Xaa Asp Cys Xaa Val Thr Leu

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20

25

30

Thr Ala Pro Gln Asn His His Ser Gly Ile Val Glu Asn Ala Glu Thr
 35 40 45

Ile Ser Trp Arg
 50

<210> 519

<211> 15

<212> PRT

<213> Homo sapiens

<400> 519

Phe Gly Asn Leu Arg Ser Pro Gly Trp Pro Asp Asn Tyr Asp Asn
 1 5 10 15

<210> 520

<211> 16

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 520

Ala Pro Gln Asn His Xaa Leu Lys Cys Arg Asn Asp Phe Leu Glu Val
 1 5 10 15

<210> 521

<211> 7

<212> PRT

<213> Homo sapiens

<400> 521

Ala Ser Phe Tyr Arg Thr Ser
 1 5

<210> 522

<211> 24

<212> PRT

<213> Homo sapiens

<400> 522

Met Gly Glu Ser Glu Cys Tyr Arg Arg Leu Ser Gly Ala Ser Cys Thr
 1 5 10 15

Trp Thr Val His Val Asp Phe Ala

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20

<210> 523
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 523
 Met His Cys Gly Thr Arg Val Trp Lys Thr Met Lys His Asp Tyr Phe
 1 5 10 15

Leu Leu Ala Cys Leu Ser Met Thr Ser Thr Gly Gly Ile Leu Cys Thr
 20 25 30

Leu

<210> 524
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 524
 Ser Thr Leu Ser Leu Ile Pro Thr Ser Ser Ser Leu Ser Phe Trp Pro
 1 5 10 15

Trp Cys Thr Ala Ile Ile Gly Ser Ile Phe Thr Tyr Cys Val Cys Val
 20 25 30

Cys Val Cys Phe Val Val Met Asn Arg Thr Cys Tyr Leu Pro Asn Ser
 35 40 45

Ile Ile Tyr His Asn Ser Lys Leu Ala Thr Ile Ile Asp Lys Ser Met
 50 55 60

Thr Leu Ser
 65

<210> 525
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 525
 Met Trp Ile Leu Pro Lys Val Ser Leu Ile Cys Ile Val Glu Leu Gly
 1 5 10 15

Tyr Gly Lys Pro
 20

<210> 526
 <211> 40
 <212> PRT

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<213> Homo sapiens

<400> 526

Met Cys Val Thr Arg Met His Val Lys Cys Pro Pro Pro Ser Ala Ser
 1 5 10 15

Val Thr Ala Val Lys Trp Pro Leu Ser Trp Ser Ser Ser Ser Phe Cys
 20 25 30

Ile Ser Leu His Ala Gly Arg His
 35 40

<210> 527

<211> 36

<212> PRT

<213> Homo sapiens

<400> 527

Glu Glu Arg Asn Lys Asn His Leu Ser Cys Gln Gly Leu Ser Thr Ile
 1 5 10 15

Cys Cys Ser Tyr Leu Ser Ser Lys Gly Glu His Leu Arg Asn Leu Ser
 20 25 30

Pro Tyr Ser Phe
 35

<210> 528

<211> 46

<212> PRT

<213> Homo sapiens

<400> 528

Gly Leu Cys Met Val His Ser Leu Leu Thr Ser Ser Leu Gly Gly Arg
 1 5 10 15

Cys Cys Asn Tyr Pro Tyr Ile Ala Asp Lys Asp Ile Glu Thr Glu Val
 20 25 30

Lys Pro Pro Ser Gln Gly His Thr Trp His Leu His Cys Ser
 35 40 45

<210> 529

<211> 75

<212> PRT

<213> Homo sapiens

<400> 529

Gln Leu Trp Cys Ile Thr Ala Leu Pro Ser Thr Arg His Cys Ser Lys
 1 5 10 15

Gly Phe Ala Trp Phe Thr His Ser Leu Arg His Pro Ser Val Ala Gly
 20 25 30

Ala Val Ile Ile Leu Ile Leu Gln Thr Arg Thr Leu Arg Gln Arg Ser

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212

35 40 45

Ser His Leu Pro Lys Gly Thr His Gly Ile Cys Thr Ala Pro Asp Arg
50 55 60

Pro Thr Glu Arg Ala Ala Val Thr Ile Leu Lys
65 70 75

<210> 530
<211> 39
<212> PRT
<213> Homo sapiens

<400> 530
Ser Phe Asp Asn Asn Asn Ser Tyr Gly Val Ser Gln Leu Tyr Gln Val
1 5 10 15

Pro Asp Thr Val Leu Arg Ala Leu His Gly Ser Leu Thr Pro Tyr Val
20 25 30

Ile Pro Arg Trp Gln Val Leu
35

<210> 531
<211> 38
<212> PRT
<213> Homo sapiens

<400> 531
Asp Arg Gly Gln Ala Thr Phe Pro Arg Ala His Met Ala Ser Ala Leu
1 5 10 15

Leu Leu Thr Asp Arg Gln Arg Glu Leu Leu Ser Arg Ser Ser Asn Glu
20 25 30

Leu Cys Met Ser Lys Val
35

<210> 532
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 532
Leu Leu Leu Ile Leu Arg Pro Phe Leu Asn Ser Gln Phe Lys Leu Gln
1 5 10 15

Leu Pro Leu Val Leu Phe His Ser Ser Cys Thr Tyr Ile Cys Leu Leu
20 25 30

Tyr Asn Tyr Glu Leu Phe His Ile Val Ala Leu Thr Gly Lys Leu Met
 35 40 45

Asn Leu Gly Leu His Leu Phe Ala His His Leu Ile Leu Ala Val Ala
 50 55 60

His Xaa Gly Cys Ser Ile Pro Ile Tyr
 65 70

<210> 533

<211> 37

<212> PRT

<213> Homo sapiens

<400> 533

Thr His Asn Ser Asn Tyr Ser Ser Leu Trp Phe Ser Ser Thr Ala Val
 1 5 10 15

Val Leu Thr Tyr Val Tyr Tyr Ile Ile Met Asn Cys Phe Ile Leu Ser
 20 25 30

Pro Leu Gln Val Asn
 35

<210> 534

<211> 187

<212> PRT

<213> Homo sapiens

<400> 534

Ala Lys Asn Ser Gln Lys Glu Glu Asn Pro Glu His Val Glu Ile Gln
 1 5 10 15

Lys Met Met Asp Ser Leu Phe Leu Lys Leu Asp Ala Leu Ser Asn Phe
 20 25 30

His Phe Ile Pro Lys Pro Pro Val Pro Glu Ile Lys Val Val Ser Asn
 35 40 45

Leu Pro Ala Ile Thr Met Glu Glu Val Ala Pro Val Ser Val Ser Asp
 50 55 60

Ala Ala Leu Leu Ala Pro Glu Glu Ile Lys Glu Lys Asn Lys Ala Gly
 65 70 75 80

Asp Ile Lys Thr Ala Ala Glu Lys Thr Ala Thr Asp Lys Lys Arg Glu
 85 90 95

Arg Arg Lys Lys Lys Tyr Gln Lys Arg Met Lys Ile Lys Glu Lys Glu
 100 105 110

Lys Arg Arg Lys Leu Leu Glu Lys Ser Ser Val Asp Gln Ala Gly Lys
 115 120 125

Tyr Ser Lys Thr Val Ala Ser Glu Lys Leu Lys Gln Leu Thr Lys Thr
 130 135 140

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214

Gly Lys Ala Ser Phe Ile Lys Val Arg Thr Arg Glu Arg Lys Leu Leu
145 150 155 160

Lys Gly Thr Phe Val Gly Glu Val Asp Ser Lys Cys Trp Val Thr Gly
165 170 175

Met Ser Glu Pro Ala Asp Ser Pro Pro Val Gly
180 185

<210> 535

<211> 51

<212> PRT

<213> Homo sapiens

<400> 535

Leu Gln Asp Glu Gly Lys Asp Lys Ala Leu Lys Ser Ser Gln Ala Phe
1 5 10 15

Phe Ser Lys Leu Gln Asp Gln Val Lys Met Gln Ile Asn Asp Ala Lys
20 25 30

Lys Thr Glu Lys Lys Lys Lys Lys Arg Gln Asp Ile Ser Val His Lys
35 40 45

Leu Lys Leu
50

<210> 536

<211> 29

<212> PRT

<213> Homo sapiens

<400> 536

Asp Glu Gly Lys Asp Lys Ala Leu Lys Ser Ser Gln Ala Phe Phe Ser
1 5 10 15

Lys Leu Gln Asp Gln Val Lys Met Gln Ile Asn Asp Ala
20 25

<210> 537

<211> 28

<212> PRT

<213> Homo sapiens

<400> 537

Glu Glu Asn Pro Glu His Val Glu Ile Gln Lys Met Met Asp Ser Leu
1 5 10 15

Phe Leu Lys Leu Asp Ala Leu Ser Asn Phe His Phe
20 25

<210> 538

<211> 13

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<212> PRT
 <213> Homo sapiens

<400> 538
 Ser Asn Leu Pro Ala Ile Thr Met Glu Val Ala Pro
 1 5 10

<210> 539
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 539
 Ser Ser Val Asp Gln Ala Gly Lys Tyr Ser Lys Thr Val Ala Ser Glu
 1 5 10 15
 Lys Leu Lys Gln Leu Thr Lys Thr Gly Lys Ala Ser Phe Ile Lys
 20 25 30

<210> 540
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 540
 Val Ser Val Ser Asp Ala Ala Leu Leu Ala Pro Glu Glu Ile Lys Glu
 1 5 10 15
 Lys Asn Lys Ala Gly Asp Ile
 20

<210> 541
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 541
 Val Leu Glu Val Met Val Thr Val Ala Pro Lys
 1 5 10

<210> 542
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 542
 Leu Gln Asp Glu Gly Lys Asp Lys Ala Leu Lys Ser Ser Gln Ala Phe
 1 5 10 15
 Phe Ser Lys Leu Gln Asp Gln Val Lys Met Gln Ile Asn Asp Ala Lys
 20 25 30

Lys Thr Glu

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Ile Leu Tyr Ser Ser Leu Ser Pro Leu Ser Leu Ser Leu Ser Pro Ser
 50 55 60

Leu Leu Ser Leu Leu
 65

<210> 547
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 547
 Gln Phe His Thr Gly Asn Ser Tyr Asp His Asp Tyr Ala Lys
 1 5 10

<210> 548
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 548
 Ile Arg His Glu Glu Ser Phe Asn Pro Leu Thr Cys Gly Phe Ser Leu
 1 5 10 15

Phe Phe Ser Leu Phe Ser
 20

<210> 549
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 549
 Met Glu Thr Leu Leu Leu Leu Phe Phe Leu Ser Leu Leu Ile Phe
 1 5 10 15

Arg Phe Arg Ile Leu Val Ser Gln Cys Ile Asn
 20 25

<210> 550
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 550
 Phe Leu Leu Thr Thr Val Leu Leu Phe Ser Ser Lys Val Arg Asp Pro
 1 5 10 15

Arg Ala Asn Phe Asp Gln Ser Leu Arg Val Leu Lys His Ala Lys Lys
 20 25 30

Val Gln Pro Asp Val Ile Ser Lys Thr Ser Ile Met Leu Gly Leu Gly
 35 40 45

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Glu Asn Asp Glu Gln Val Tyr Ala Thr Met Lys Gly Lys Glu Ile Glu
 50 55 60

Lys
 65

<210> 551
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 551
 Gln Gln Ser Cys Cys Phe Pro Val Arg Phe Val Ile Leu Gly Pro Ile
 1 5 10 15

Leu Ile Ser Pro Tyr Val Tyr
 20

<210> 552
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 552
 Met Phe Tyr Ser Lys Ile Phe Tyr Phe Leu Leu Asn Ser Asp Thr
 1 5 10 15

Ser Asn Asn Val Thr Ser Lys Thr Leu Val Ser Ser Ile Ser Ser Ser
 20 25 30

Asn Asn Arg Leu Ala Val Ser Ile Val Phe
 35 40

<210> 553
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 553
 Ser Arg Gln Lys Asn Leu Leu Lys Leu His Ser Asn Pro Asn Cys Asp
 1 5 10 15

Asn Phe Cys Phe Ile Phe Asn Tyr Lys Pro Lys Tyr Ile Cys Ile Phe
 20 25 30

Lys Leu Ile Cys Leu Lys Ile Leu Leu Tyr Ile Phe Gly Ser Gly
 35 40 45

<210> 554
 <211> 56
 <212> PRT
 <213> Homo sapiens

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<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 554
 Met Leu Leu Ser Leu Leu Met Val Phe Thr Ser Glu Leu Tyr Val Lys
 1 5 10 15
 Arg His Ile Ser Phe Lys Ser Xaa Asp Lys Pro His Cys His Lys Asn
 20 25 30
 Gln Asp Ile Asp Val Leu Phe Arg Lys Leu Leu Glu Lys His Phe Lys
 35 40 45
 Val Ile Asn Met Ile Cys Phe Pro
 50 55

 <210> 555
 <211> 12
 <212> PRT
 <213> Homo sapiens

 <400> 555
 Phe Arg Glu Tyr Gly Phe Tyr Asn Leu His Phe Cys
 1 5 10

 <210> 556
 <211> 38
 <212> PRT
 <213> Homo sapiens

 <400> 556
 Leu Val Thr Thr Asp Tyr Tyr Asp Gly Cys Asn Glu Asp Tyr Glu Tyr
 1 5 10 15
 Asn Trp Ser Tyr Met Phe Leu Asn Ser Glu Gln Leu Phe Ile Lys Phe
 20 25 30
 Tyr Pro Thr Phe Phe Cys
 35

 <210> 557
 <211> 52
 <212> PRT
 <213> Homo sapiens

 <400> 557
 Asn Val Ile Ala Pro Gly Leu Glu Ser Ser Cys Ala Asn Ser Leu Phe
 1 5 10 15
 Leu Leu Phe Val Cys Leu Pro Val Ala His His Arg His Asn Phe Leu
 20 25 30

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Phe Ile Lys His Ser Leu Tyr Asn His Leu Arg Asp Tyr Glu Ser Asp
35 40 45

Phe Asp Lys Ile
50

<210> 558
<211> 82
<212> PRT
<213> Homo sapiens

<400> 558
Leu Asn Ile Asp Ser Phe Asp Tyr Gly Lys Phe Glu Ser Leu Leu Ala
1 5 10 15

Lys Gln His Tyr Lys Phe Ser Phe Leu Leu Pro Leu Ala Ala Gly Thr
20 25 30

Glu Arg Cys Lys Trp Trp Leu Lys Ile Glu Glu Ala Ser Ser Asp Gln
35 40 45

Cys Gly Cys Trp Phe Leu Val Lys Cys Val Pro Lys Pro Pro Ser Pro
50 55 60

Cys Arg Gln Pro Pro Thr Gln Val Ser Lys Ile Gly His Ala Pro Phe
65 70 75 80

Phe Leu

<210> 559
<211> 52
<212> PRT
<213> Homo sapiens

<400> 559
Gln Glu Phe Gln Thr Gly Leu Gly Asn Met Val Lys Pro Cys Leu Tyr
1 5 10 15

Glu Lys Tyr Arg Asn Ile Ser Trp Leu Trp Trp His Thr Pro Val Val
20 25 30

Pro Ala Thr Trp Glu Ala Glu Val Gly Gly Ser Leu Glu Pro Gly Arg
35 40 45

Leu Arg Leu Gln
50

<210> 560
<211> 65
<212> PRT
<213> Homo sapiens

<400> 560
Ile Leu Gly Gly Glu Ser Ile Leu Ile Leu Ser Trp Val Phe Ser Tyr

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1 5 10 15

Ile Phe Phe Arg Ile Ala Leu Glu Ile Thr Ile Tyr Ile Leu Asn Val
20 25 30

Ser Pro Phe Cys Leu Gly Arg Trp Leu Met Pro Val Ile Pro Ala Leu
35 40 45

Trp Glu Ala Glu Val Gly Gly Leu Pro Glu Leu Arg Ser Ser Arg Pro
50 55 60

Ala
65

<210> 561
<211> 45
<212> PRT
<213> Homo sapiens

<400> 561
Val Leu Cys Glu Glu Ala Gly Gln Lys Val Pro Ser Thr Pro Ser Trp
1 5 10 15

Ser Ser Trp Thr Leu Gln Lys Arg Leu Arg Gly Ser Pro Ala Glu Ala
20 25 30

Asn Cys Ser Pro Ser Phe Pro Ala Pro Pro Gly Lys Glu
35 40 45

<210> 562
<211> 103
<212> PRT
<213> Homo sapiens

<400> 562
Met Ser Leu Ser Ala Leu Ala Cys Asp Phe Thr Pro Ile Gln Pro Trp
1 5 10 15

Glu Trp Glu Glu Tyr Glu Gln Ile Thr Leu Gly Leu Thr Ala Pro Ser
20 25 30

Asn Leu Leu Glu Ser Asn Tyr Leu Gly Gln Ala Ser Glu Cys Phe Val
35 40 45

Arg Lys Leu Val Arg Arg Phe Pro Gln Leu Leu Pro Gly Pro Pro Gly
50 55 60

His Cys Arg Lys Asp Leu Gly Asp Pro Gln Gln Arg Pro Ile Ala Leu
65 70 75 80

Leu Pro Ser Leu Pro His Gln Glu Arg Asn Asn Val His Arg Leu Glu
85 90 95

Ala Asp Ser Glu Val Asp Leu
100

<210> 563
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 563
 Cys Val Asp Phe Asp Glu Tyr Phe Ser Ser Trp Glu Pro Leu Leu Lys
 1 5 10 15
 Met Met Phe Lys Gly Val Val Gly Gly Lys Met Lys Ala Trp Arg Arg
 20 25 30
 Lys Lys Arg Arg Lys Pro Leu Pro Tyr Lys Ile His Ala Asp
 35 40 45

<210> 564
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 564
 Met Met Phe Lys Gly Val Val Gly Gly Lys Met Lys Ala Trp Arg Arg
 1 5 10 15
 Lys Lys Arg Arg Lys Pro Leu Pro Tyr Lys Ile His Ala Asp
 20 25 30

<210> 565
 <211> 162
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 565
 Xaa Leu Trp Asp Pro Gly Leu Pro Gly Val Cys Arg Cys Gly Ser Ile
 1 5 10 15
 Val Leu Lys Ser Ala Phe Ser Val Gly Ile Thr Thr Ser Tyr Pro Glu
 20 25 30
 Xaa Arg Leu Pro Ile Ile Phe Asn Lys Val Leu Leu Pro Arg Gly Xaa
 35 40 45

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Ala Leu Gln Pro Cys His Arg Gly Ser Ser Ser Val Leu Ser Gln Gly
50 55 60

Ile Tyr Tyr Phe Ser Tyr Asp Ile Thr Leu Ala Asn Lys His Leu Ala
65 70 75 80

Ile Gly Leu Val His Asn Gly Gln Tyr Arg Ile Lys Thr Phe Asp Ala
85 90 95

Asn Thr Gly Asn His Asp Val Ala Ser Gly Ser Thr Val Ile Tyr Leu
100 105 110

Gln Pro Glu Asp Glu Val Trp Leu Glu Ile Phe Phe Thr Asp Gln Asn
115 120 125

Gly Leu Phe Ser Asp Pro Gly Trp Ala Asp Ser Leu Phe Ser Gly Phe
130 135 140

Leu Leu Tyr Val Asp Thr Asp Tyr Leu Asp Ser Ile Ser Glu Asp Asp
145 150 155 160

Glu Leu

<210> 566

<211> 15

<212> PRT

<213> Homo sapiens

<400> 566

Gly Ser Ile Val Leu Lys Ser Ala Phe Ser Val Gly Ile Thr Thr
1 5 10 15

<210> 567

<211> 14

<212> PRT

<213> Homo sapiens

<400> 567

Gly Ile Tyr Tyr Phe Ser Tyr Asp Ile Thr Leu Ala Asn Lys
1 5 10

<210> 568

<211> 13

<212> PRT

<213> Homo sapiens

<400> 568

Asp Ser Leu Phe Ser Gly Phe Leu Leu Tyr Val Asp Thr
1 5 10

<210> 569

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<211> 13
 <212> PRT
 <213> Homo sapiens

<400> 569
 Asn His Asp Val Ala Ser Gly Ser Thr Val Ile Tyr Leu
 1 5 10

<210> 570
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 570
 Ile Thr Pro Leu Gly Leu Gly Ala Ala Asp
 1 5 10

<210> 571
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 571
 Thr Leu Arg Val Leu Gly Lys Val Pro Ala Val Cys Pro Trp Cys Ala
 1 5 10 15

Leu Trp Arg Lys Ala Gly Met Asp Met Thr Tyr Ser Trp Leu Ser Arg
 20 25 30

Gly Asp Ser Thr Tyr Thr Phe His Glu Gly Pro Val Leu Ser Thr Ser
 35 40 45

Trp Arg Pro Gly Asp Ser Ala Leu Ser Tyr Thr Cys Arg Ala Asn Asn
 50 55 60

Pro Ile Ser Asn Val Ser Ser Cys Pro Ile Pro Asp Gly Pro Phe Tyr
 65 70 75 80

Ala Asp Pro Asn Tyr Ala Ser Glu Lys Pro Ser Thr Ala Phe Cys Leu
 85 90 95

Leu Ala Lys Gly Leu Leu Ile Phe Leu Leu Leu Val Ile Leu Ala Met
 100 105 110

Gly Leu Trp Val Ile Arg Val Gln Lys Arg His Lys Met Pro Arg Met
 115 120 125

Lys Lys Leu Met Arg Asn Arg Met Lys Leu Arg Lys Glu Ala Lys Pro
 130 135 140

Gly Ser Ser Pro Ala
 145

<210> 572
 <211> 21

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<212> PRT
 <213> Homo sapiens

<400> 572
 Ala Val Cys Pro Trp Cys Ala Leu Trp Arg Lys Ala Gly Met Asp Met
 1 5 10 15

Thr Tyr Ser Trp Leu
 20

<210> 573
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 573
 Pro Gly Asp Ser Ala Leu Ser Tyr Thr Cys Arg Ala Asn Asn Pro Ile
 1 5 10 15

Ser Asn Val Ser Ser Cys Pro Ile
 20

<210> 574
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 574
 Tyr Ala Ser Glu Lys Pro Ser Thr Ala Phe Cys Leu Leu Ala Lys Gly
 1 5 10 15

Leu Leu Ile Phe Leu Leu Leu Val
 20

<210> 575
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 575
 Gln Lys Arg His Lys Met Pro Arg Met Lys Lys Leu Met Arg Asn Arg
 1 5 10 15

Met Lys Leu Arg Lys Glu Ala Lys Pro Gly
 20 25

<210> 576
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 576
 Leu Ser Tyr Ser Val Leu Leu Ile Leu Pro Leu Phe His Ser Leu Pro

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226
1 5 10 15
Thr Leu Lys Asp Thr His Thr His Asn Lys Trp Val Glu
20 25
<210> 577
<211> 61
<212> PRT
<213> Homo sapiens
<400> 577
Glu Val Asn Gly Val Gly Tyr Lys His Ser Cys Phe Ser Asp Ile Ser
1 5 10 15
Ser Val Leu Glu Asn Lys Asp Ser Arg Met Arg Ala Pro His Tyr Ala
20 25 30
Ser Phe Gln His Phe Phe Ser Val Leu Leu Lys Leu Ser Pro Gln Ala
35 40 45
Cys Leu Thr Glu Ser Gln Cys Ile Pro Leu Thr Phe Tyr
50 55 60
<210> 578
<211> 37
<212> PRT
<213> Homo sapiens
<400> 578
Lys Thr His Thr His Thr Ile Ser Gly Trp Ser Lys Lys Ser Thr Glu
1 5 10 15
Leu Asp Ile Ser Ile Pro Ala Phe Leu Thr Ser Pro Val Ser Trp Arg
20 25 30
Thr Arg Ile Leu Glu
35
<210> 579
<211> 29
<212> PRT
<213> Homo sapiens
<400> 579
Ile Arg His Glu Leu Gly Ser Ser Asp Pro Pro Ala Glu Ala Ser Gln
1 5 10 15
Ile Ala Gly Thr Ala Ala Val Ser His His Ala Gln Pro
20 25
<210> 580
<211> 109
<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 580

Leu Lys Gly Arg Glu Ala Gly Ala Gly Pro Gly Thr Ala Gly Ala Pro
1 5 10 15

Gly Arg Glu Asp Ala Asn Gly Xaa Xaa Arg Gly Arg Gly Gly Xaa His
20 25 30

Gln Leu Tyr Leu Trp Val Asp Asn Ile Pro Leu Ser Arg Pro Lys Arg
35 40 45

Asn Leu Ser Arg Asp Phe Ser Asp Gly Val Leu Val Ala Glu Val Ile
50 55 60

Lys Phe Tyr Phe Pro Lys Met Val Glu Met His Asn Tyr Val Gly Thr
65 70 75 80

Ser Ser Leu Gln Gln Lys Leu Ser Asn Trp Gly His Leu Asn Arg Lys
85 90 95

Val Leu Lys Arg Leu Asn Phe Ser Val Pro Asp Asp Val
100 105

<210> 581

<211> 25

<212> PRT

<213> Homo sapiens

<400> 581

Trp Val Asp Asn Ile Pro Leu Ser Arg Pro Lys Arg Asn Leu Ser Arg
1 5 10 15

Asp Phe Ser Asp Gly Val Leu Val Ala
20 25

<210> 582

<211> 25

<212> PRT

<213> Homo sapiens

<400> 582

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Tyr Val Gly Thr Ser Ser Leu Gln Gln Lys Leu Ser Asn Trp Gly His
 1 5 10 15

Leu Asn Arg Lys Val Leu Lys Arg Leu
 20 25

<210> 583

<211> 97

<212> PRT

<213> Homo sapiens

<400> 583

Gly Ser Ala Trp Arg Arg Gly Arg Gly Ala Gly Ser Arg Ala Pro Ala
 1 5 10 15

Pro Tyr Arg Ser Trp Leu Pro Arg Met Ala Val Ala Thr Trp Met Trp
 20 25 30

Val Tyr Pro Arg Arg Pro Glu Val Lys Val Ser Arg Thr Pro Arg Glu
 35 40 45

Gly Val Ser Ser Ala Gly Thr Gly Arg Arg Arg Leu Gly Leu Gln Arg
 50 55 60

Ile Thr Gly Arg Cys Arg Ala Thr Pro Ala Ser Ser Ser Arg Ser Leu
 65 70 75 80

Lys Arg Ser Arg Ser Cys Trp Pro Leu Lys Arg Pro Cys Arg Ser Cys
 85 90 95

Arg

<210> 584

<211> 21

<212> PRT

<213> Homo sapiens

<400> 584

Trp Leu Pro Arg Met Ala Val Ala Thr Trp Met Trp Val Tyr Pro Arg
 1 5 10 15

Arg Pro Glu Val Lys
 20

<210> 585

<211> 23

<212> PRT

<213> Homo sapiens

<400> 585

Cys Arg Ala Thr Pro Ala Ser Ser Ser Arg Ser Leu Lys Arg Ser Arg
 1 5 10 15

Ser Cys Trp Pro Leu Lys Arg

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<210> 586
 <211> 347
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (241)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (243)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 586
 Glu His Asn Thr Asp Phe Asn Gly Ala Ala Leu Ser Arg Asn Leu Gln
 1 5 10 15
 Thr Phe Arg Leu Ser Thr Pro Cys Ala Arg Arg Glu Gly Arg Leu Leu
 20 25 30
 Arg Ala His Arg Arg Cys Pro Pro Tyr Ser Trp Arg Ser His Ala Ser
 35 40 45
 Pro Leu Pro Leu Gln Leu Leu Arg Ser Pro Ser Pro Arg Trp Val Pro
 50 55 60
 Gly Lys Leu Pro Gly Gly Ala Gly Glu Pro Leu Ser Gly Pro Gly Gln
 65 70 75 80
 Ile Pro Pro Trp Leu Arg Ala Trp Gly Thr Ser Leu Asp Gly Asp Ala
 85 90 95
 Ala Val Leu Gly Ala Gly Arg Gly Pro Asp Ser Gly Gly Val Asp Arg
 100 105 110
 Ala Lys Gly Pro Pro Pro Lys Ala Gln Arg Arg Glu Met Gln Gly Arg
 115 120 125
 Ala Gln Gly Val Gly His Cys Phe Gly Gly Gln Ala Arg Ser Leu His
 130 135 140
 Val Ala Ser Gly Leu Trp Lys Ala Val His Ser Pro Asp Pro Asp Leu
 145 150 155 160
 Arg Ser Gly Arg Arg Arg Leu Ser Pro Gly Pro Ala Leu Leu Glu Phe
 165 170 175
 Leu Ser His Leu Leu His Ala His Pro Ser Gln Gly Arg Arg Ala Leu
 180 185 190
 Gly Pro Gln Gln Ala Arg Glu Ser Ser Gly Leu Arg Pro Pro Asn Gly
 195 200 205
 Leu Ser Ile Gly Gly Trp Val Arg Arg Gly Val Gly Ala Leu Ala Gly
 210 215 220

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231

Gly Ala Gly Glu Pro Leu Ser Gly Pro Gly Gln Ile Pro Pro Trp Leu
1 5 10 15

Arg Ala Trp Gly Thr Ser Leu Asp
20

<210> 590

<211> 30

<212> PRT

<213> Homo sapiens

<400> 590

Leu Gly Ala Gly Arg Gly Pro Asp Ser Gly Gly Val Asp Arg Ala Lys
1 5 10 15

Gly Pro Pro Pro Lys Ala Gln Arg Arg Glu Met Gln Gly Arg
20 25 30

<210> 591

<211> 23

<212> PRT

<213> Homo sapiens

<400> 591

Gln Ala Arg Ser Leu His Val Ala Ser Gly Leu Trp Lys Ala Val His
1 5 10 15

Ser Pro Asp Pro Asp Leu Arg
20

<210> 592

<211> 20

<212> PRT

<213> Homo sapiens

<400> 592

His Pro Ser Gln Gly Arg Arg Ala Leu Gly Pro Gln Gln Ala Arg Glu
1 5 10 15

Ser Ser Gly Leu
20

<210> 593

<211> 27

<212> PRT

<213> Homo sapiens

<400> 593

Ile Gly Gly Trp Val Arg Arg Gly Val Gly Ala Leu Ala Gly Thr Arg
1 5 10 15

Ala Ser Pro Arg Gly Pro Gly Arg Arg Ser Pro
20 25

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<210> 594
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 594
 Glu Pro Pro Gly Val Phe Asp Pro His Ile Leu Glu Leu Glu Gln
 1 5 10 15
 Val Leu Gln Ala Pro Tyr Leu His Leu
 20 25

<210> 595
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 595
 Val Pro Ala Glu Leu Thr Pro Ser Leu Gly Val Arg Asp Thr Phe Thr
 1 5 10 15
 Ser Gly Leu Leu Gly Tyr Thr His Ile His Val Ala
 20 25

<210> 596
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 596
 His Thr Leu Phe Ile Ser Phe Leu Trp Ala Glu Gly
 1 5 10

<210> 597
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 597
 Met Leu Pro Val Phe Val Leu Phe Phe Cys Phe Thr Tyr Ser Ala Arg
 1 5 10 15
 Lys Gln Ser Val Phe Lys Lys Gly Asn Val Phe Glu
 20 25

<210> 598
 <211> 63
 <212> PRT
 <213> Homo sapiens

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<400> 598

Ser Pro Cys Ser Ala Ala Glu Cys His Asn Leu Ser Leu Leu Ser Ser
 1 5 10 15

Cys Ser Leu Val Ser Ser Asn Ile Leu Phe Ser Phe Pro Phe Phe Gly
 20 25 30

Gln Lys Ala Arg Cys Cys Leu Phe Leu Phe Tyr Phe Ser Ala Ser His
 35 40 45

Ile Ala His Glu Ser Arg Val Tyr Ser Lys Lys Glu Met Cys Leu
 50 55 60

<210> 599

<211> 52

<212> PRT

<213> Homo sapiens

<400> 599

Ala Phe Phe Leu Leu Gln Ala Leu Glu Ile Gln Ser Gln Leu Ala Thr
 1 5 10 15

Pro Ala Ser Ser Thr Ala Arg Asn Pro Ala Pro Asp Leu His His Pro
 20 25 30

His Gln Pro Thr Ile Glu Arg Phe Cys Arg His Ser Ser Ser Trp Glu
 35 40 45

Arg Ile Glu Tyr
 50

<210> 600

<211> 27

<212> PRT

<213> Homo sapiens

<400> 600

Met Arg Thr Leu Phe Gly Ala Val Arg Ala Pro Phe Ser Ser Leu Thr
 1 5 10 15

Leu Leu Leu Ile Thr Pro Ser Pro Ser Pro Leu
 20 25

<210> 601

<211> 10

<212> PRT

<213> Homo sapiens

<400> 601

Met Ala Tyr Ala Phe His Arg Thr Ser Thr
 1 5 10

<210> 602

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Trp Ser Gln Thr Pro Asp Leu Lys
50 55

<210> 606
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 606
 Ser Thr His Leu Gly Leu Pro Arg Cys Trp Asp Tyr Arg His Glu Pro
 1 5 10 15
 Leu Cys Leu Ala Pro Phe Thr Thr Ile Ser Ile Ile Ile Met Gln Gly
 20 25 30
 Leu Ser Asn Leu Ser Met Pro Gln Asn Pro Pro Glu Gly Cys Ala His
 35 40 45
 Arg Leu Leu Asp Leu Ser Pro Ala Ser Asp Ser Val Pro Pro Glu Trp
 50 55 60
 Gly Ser Lys Ile Ala Phe Glu Val
 65 70

<210> 607
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 607
 Leu Arg Val Gly Gly Thr Ser Glu Asn Cys Cys Arg Gly Glu Cys Cys
 1 5 10 15
 Gly Ser Val Cys Ile Pro Pro Gly Arg Leu
 20 25

<210> 608
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 608
 Ser Asn Ser His Thr His Thr His Val Lys Ser Phe Leu Arg
 1 5 10

<210> 609
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 609
 Gln Pro Tyr Gln Val Leu Pro Ser Arg Gln Val Phe Ala Leu Ile
 1 5 10 15

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<210> 610
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 610
 Val Phe Ser Cys Ile Tyr Gly Glu Gly Tyr Ser Asn Ala His Glu Ser
 1 5 10 15
 Lys Gln Met Tyr Cys Val Phe Asn
 20

<210> 611
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 611
 Arg Asn Glu Asp Ala Cys Arg Tyr Gly Ser Ala Ile Gly Val Leu Ala
 1 5 10 15
 Phe Leu

<210> 612
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 612
 Leu Val Val Asp Ala Tyr Phe Pro Gln Ile Ser Asn Ala Thr Asp Arg
 1 5 10 15
 Lys

<210> 613
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 613
 Ser Ala Leu Trp Thr Phe Leu Trp Phe Val Gly Phe Cys Phe Leu Thr
 1 5 10 15
 Asn Gln Trp Ala Val Thr Asn Pro Lys
 20 25

<210> 614
 <211> 72
 <212> PRT
 <213> Homo sapiens

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<400> 614
 Thr Ala Thr Leu Asn Ser Phe Phe Gly Gly Trp Gly Leu Ala Leu Leu
 1 5 10 15
 Leu Arg Leu Glu Cys Ser Asp Thr Ile Met Asp His Cys Ser Leu Asp
 20 25 30
 Leu Leu Gly Ser Ser Asn Pro Pro Ala Ser Ala Ser Gln Val Val Gly
 35 40 45
 Thr Thr Gly Ala Arg His His Ala Gln Leu Ile Phe Cys Phe Phe Val
 50 55 60
 Gln Thr Arg Ser His Ser Val Ala
 65 70

<210> 615
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 615
 Met Asp His Cys Ser Leu Asp Leu Leu Gly Ser Ser Asn Pro Pro Ala
 1 5 10 15
 Ser Ala Ser Gln Val Val Gly Thr Thr Gly Ala Arg His His Ala Gln
 20 25 30
 Leu Ile Phe Cys Phe Phe Val Gln Thr Arg Ser His Ser Val Ala
 35 40 45

<210> 616
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 616
 Gly Val Leu Lys Gln Ser Ser His Leu Val Leu Ser Lys Gly
 1 5 10

<210> 617
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 617
 Asp Tyr Ser Cys Glu Ser Leu Cys Pro Ala Leu Leu Ser Ile Ala Pro
 1 5 10 15
 Asp Ile Val Leu Asn
 20

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<210> 618
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 618
 Thr Thr Ile His Lys Thr Gln Leu Gly Ser Tyr Lys Ile Leu Trp Glu
 1 5 10 15
 Pro Lys Glu Gly Tyr His Asn Ser Thr Trp Ile
 20 25

<210> 619
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 619
 Ile Arg Glu Ile Phe Leu Arg Arg Pro
 1 5

<210> 620
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 620
 Leu Lys Phe Gln Lys Pro Gly Lys Ile Gln Met Arg Gly Gly Gly Arg
 1 5 10 15

Val Phe Trp Tyr Lys Asn Cys Lys
 20

<210> 621
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 621
 Arg His Glu Pro Asp Pro Met
 1 5

<210> 622
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 622
 Ala Val Cys Thr Gly Gly Tyr Cys Glu Ser Cys Arg Cys Glu His Cys
 1 5 10 15
 Val Cys Val Cys Val Asp Leu Cys Val Leu Phe Ser Gly Lys Glu Leu
 20 25 30

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Arg Val Arg
35

<210> 623
<211> 72
<212> PRT
<213> Homo sapiens

<400> 623
Val Ser Phe Phe Val Phe Lys Trp Ser Phe Ala Glu Ile Lys Ser
1 5 10 15
Arg Glu Glu His Trp Ala Ser Leu Thr Pro Lys Pro Thr Leu Leu Ser
20 25 30
Ala Leu Leu Thr Cys Asp Val Leu Lys Ser Ser Ile Ile Phe Lys Cys
35 40 45
Cys Glu Ser Thr Glu Asp Lys Gly Phe Asp Ser Phe Phe Gln Ala Ser
50 55 60
Lys Asp Gly Ser Ser Ser Arg Ile
65 70

<210> 624
<211> 99
<212> PRT
<213> Homo sapiens

<400> 624
Arg Ser Trp Gly Ser Gln Arg Ser Leu Cys Leu Leu Phe Ile Pro Phe
1 5 10 15
Ala Ala Glu Ser Tyr Ser Val Val Trp Met Gly His Leu Phe Val Val
20 25 30
Cys Leu Leu Ser Ser Trp Trp Thr Phe Arg Pro Phe Ala Leu Ala Val
35 40 45
Thr Val Asn His Val Ala Val Asn Ile Val Cys Val Ser Ala Trp Thr
50 55 60
Cys Val Ser Cys Ser Leu Gly Arg Ser Cys Gly Leu Glu Gly Ser Phe
65 70 75 80
Leu Phe Pro Leu Glu Thr Leu Trp Phe Pro His Met Val Val Leu Cys
85 90 95
Leu Thr Phe

<210> 625
<211> 74
<212> PRT

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<213> Homo sapiens

<400> 625

Met Gly His Leu Phe Val Val Cys Leu Leu Ser Ser Trp Trp Thr Phe
 1 5 10 15

Arg Pro Phe Ala Leu Ala Val Thr Val Asn His Val Ala Val Asn Ile
 20 25 30

Val Cys Val Ser Ala Trp Thr Cys Val Ser Cys Ser Leu Gly Arg Ser
 35 40 45

Cys Gly Leu Glu Gly Ser Phe Leu Phe Pro Leu Glu Thr Leu Trp Phe
 50 55 60

Pro His Met Val Val Leu Cys Leu Thr Phe
 65 70

<210> 626

<211> 51

<212> PRT

<213> Homo sapiens

<400> 626

His Asp Val Leu Gly Ala Arg Asn Ala Ala Cys Val Cys Cys Ser Phe
 1 5 10 15

Leu Leu Gln Gln Asn Arg Ile Leu Leu Phe Gly Trp Ala Thr Cys Leu
 20 25 30

Leu Ser Val Tyr Ser Pro Ala Gly Gly His Leu Gly Arg Leu His Trp
 35 40 45

Arg Leu Leu
 50

<210> 627

<211> 130

<212> PRT

<213> Homo sapiens

<400> 627

Met Leu Asp Phe Lys Thr Ser Gln Val Ser Lys Ala Leu Lys Arg Val
 1 5 10 15

Gly Phe Gly Val Arg Leu Ala Gln Cys Ser Ser Leu Asp Leu Ile Ser
 20 25 30

Ala Lys Leu His Leu Lys Thr Lys Lys Lys Glu Thr Tyr Ile Thr Ser
 35 40 45

Thr Val Met Thr Ala Ala Ser Leu Phe Leu Ser Tyr Val Thr Ser Glu
 50 55 60

Phe Thr Arg Ser Ile Met Ala Thr Phe Tyr Cys Phe Val Leu Lys Leu
 65 70 75 80

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His Ile Gly Glu Met Gly Thr Leu Gln Thr Ala Gly Gly Ser Lys Met
85 90 95

Thr Trp Pro Leu Gln Lys Ala Ile Trp Gln Phe Leu Lys Arg Leu Ser
100 105 110

Ile Lys Leu Pro Tyr Val Glu Thr Arg Glu Ser Pro Gly Glu Thr Lys
115 120 125

Asn Tyr
130

<210> 628

<211> 28

<212> PRT

<213> Homo sapiens

<400> 628

Leu Thr Arg Asn Ser Phe Pro Glu Asn Arg Thr His Lys Ser Thr Gln
1 5 10 15

Thr His Thr Gln Cys Ser Gln Arg His Asp Ser Gln
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<210> 629

<211> 60

<212> PRT

<213> Homo sapiens

<400> 629

Leu Phe Tyr Leu Leu Thr Cys Ser Cys Ala Pro Gly His Leu Ala Phe
1 5 10 15

Val Cys Ser Gln Cys Leu Pro Phe Asp Met Gly Lys Glu Leu Trp Pro
20 25 30

Lys Ser Pro Ser Ser Cys Thr Ser Thr Ser Val Ala Gln Gly Trp Gly
35 40 45

Gly Arg Gly Arg Pro Ser Pro Tyr Ile Cys Val Val
50 55 60

<210> 630

<211> 61

<212> PRT

<213> Homo sapiens

<400> 630

Ile Gln Gly Ser Arg Leu Pro Pro Leu Pro Ala Pro Leu His Pro Leu
1 5 10 15

Pro Leu Ile Tyr Leu Leu Leu Gly Ser Pro Ala Gln Ser Trp Leu Leu
20 25 30

Val Pro Ser Trp Gly His Pro Ser Thr Leu Thr Leu Thr Met Ala Ala

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35

40

45

Glu His Gln Ala Trp Pro Ser Gly Phe His Gly Asp His
 50 55 60

<210> 631

<211> 15

<212> PRT

<213> Homo sapiens

<400> 631

Met Pro Lys Gln Leu Ala Gln Leu Leu Tyr Arg Leu Pro Arg Gly
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<210> 632

<211> 46

<212> PRT

<213> Homo sapiens

<400> 632

Leu Phe Gln Ala Ile Ser Val Ser Gly Ser His Arg Gln Gly Ser Arg
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Thr Trp Asn Thr Leu Thr Glu Gly Asn Ala Glu Ala Ala Cys Thr Val
 20 25 30

Ala Leu Gln Thr Ser Lys Arg Leu Ile Leu Ala Ser Arg Trp
 35 40 45

<210> 633

<211> 50

<212> PRT

<213> Homo sapiens

<400> 633

Thr Leu Ser Phe Met Asn Ser His Cys Val Pro Ile Lys Ala Leu Phe
 1 5 10 15

Phe Leu Ser Val Val Ser Tyr Ile Phe Ile Met Pro His His Ile Phe
 20 25 30

Phe Thr Val Lys Ile Leu Lys Ser Cys Phe Gln Val Gly Gln Leu Met
 35 40 45

Lys Leu
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<210> 634

<211> 109

<212> PRT

<213> Homo sapiens

<400> 634

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Arg Pro Thr Arg Pro Ile Thr Phe Ser Ser Asn Ile Ser Glu Trp Val
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 Pro Ser Thr Gly Phe Gln Asp Leu Glu His Phe Asn Arg Arg Lys Cys
 20 25 30
 Arg Ser Ser Leu His Ser Cys Phe Thr Asp Phe Gln Glu Ala Asp Ser
 35 40 45
 Gly Phe Lys Met Glu Pro Trp Ser Trp Phe Phe Phe Phe Phe
 50 55 60
 Phe Pro Gln Arg Thr Cys Gly Cys Ala Leu Cys Val Leu Phe Leu Phe
 65 70 75 80
 Ser Ile Trp Gly Pro His Gly Lys Glu Leu Leu Asn Ser Phe Leu Tyr
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 Glu Leu Pro Leu Cys Ser Tyr Lys Gly Pro Phe Leu Ser
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<210> 635
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 635
 Thr Lys Thr Ser Thr Pro Leu Arg
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<210> 636
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 636
 Ala Ser Phe Gly Ser Cys Ser Leu Ser Leu Pro Cys Ser Ala Arg Glu
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Arg Thr Pro Glu Gly Gly Gly Trp Pro Gly Gly Arg Leu Ser Glu Pro
 20 25 30

Leu Pro Ala
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<210> 637
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 <212> PRT
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<400> 637
 Ala Pro Asn Val Val Leu Val
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<210> 638
 <211> 6
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<400> 638
 Asp Gly Arg Leu Thr Phe
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<210> 639
 <211> 14
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<400> 639
 Pro Gly Ser Gln Val Val Lys Leu Pro Phe Ile Asn Phe Met
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<210> 640
 <211> 9
 <212> PRT
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<400> 640
 Phe Leu Asn Ala Tyr Thr Asn Ser Pro
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<210> 641
 <211> 36
 <212> PRT
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<400> 641
 Ile Cys Cys Pro Ser Arg Ala Ala Met Trp Ser Gly Leu Phe Thr His
 1 5 10 15

Leu Thr Glu Ser Trp Asn Asn Phe Lys Gly Leu Asp Pro Asn Tyr Thr
 20 25 30

Thr Trp Met Asp
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<210> 642
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 <212> PRT
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<400> 642
 Thr Gln Lys Phe Gly Lys
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<210> 643
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 643
 Asp Tyr Thr Ser Gly His His Ser Ile
 1 5

<210> 644
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 644
 Ser Asn Arg Val Glu Ala Trp Thr Arg Asp Val Ala Phe Leu Leu Arg
 1 5 10 15

Gln Glu Gly Arg Pro
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<210> 645
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 645
 Asp Trp Gln Asn Thr Asp Lys Ala
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<210> 646
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 646
 Tyr Leu Gly Leu Asn Leu Pro His Pro Tyr Pro Ser Pro Ser Ser Gly
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Glu Asn Phe Gly Ser Ser Thr Phe His Thr Ser Leu Tyr Trp Leu Glu
 20 25 30

Lys Val

<210> 647
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 <212> PRT
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<400> 647
 Asp Ala Ile Lys Ile Pro Lys Trp

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<210> 648
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<400> 648
 Tyr Thr Lys Asn Cys Thr Gly
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<210> 649
 <211> 25
 <212> PRT
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<400> 649
 Asn Ile Arg Ala Phe Tyr Tyr Ala Met Cys Ala Glu Thr Asp Ala Met
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<210> 650
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<400> 650
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<210> 651
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<400> 651
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<210> 652
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 652
 His Val Pro Leu Leu Met Met Gly Pro Gly Ile Lys Ala
 1 5 10

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<400> 653
Val Val Ser Leu Val Asp Ile Tyr Pro Thr Met Leu Asp Ile Ala Gly
1 5 10 15

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<213> Homo sapiens
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Ala Val

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<400> 657
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<210> 658
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 658
 Asn Tyr Pro Lys Val Ser Ala Ser Val His Gln Tyr Asn Lys Glu Gln
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Phe Ile

<210> 659
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 <212> PRT
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<400> 659
 Gly Gln Asn Tyr Ser Asn Val Ile Ala
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<210> 660
 <211> 7
 <212> PRT
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<400> 660
 Arg Trp His Gln Asp Trp Gln
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<210> 661
 <211> 8
 <212> PRT
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<400> 661
 Pro Arg Lys Tyr Glu Asn Ala Ile
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<210> 662

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<211> 89
 <212> PRT
 <213> Homo sapiens

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 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (75)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 662
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 Trp Thr Arg Gln Leu Val Met Lys Glu Asp Gly Ala Asn Leu Tyr Val
 35 40 45
 Ala Lys Val Ser Gln Val Pro Arg Met Asn Pro Xaa Leu Ser Trp Val
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 Leu Leu Cys Tyr Pro Gly Trp Ser Ala Val Xaa Thr Ile Val Ala His
 65 70 75 80
 Cys Ser Leu Asp Phe Pro Gly Ser Lys
 85

<210> 663
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 663
 Glu Leu Thr Ala Ile Lys Ser His Gln Tyr Val Leu Gln Ala Ala Cys
 1 5 10 15
 Pro Glu Ser Trp Ile Gly Phe Gln Arg Lys Cys Phe Tyr Phe Ser Asp
 20 25 30
 Asp Thr Lys Asn Trp Thr Ser Ser Gln Arg Phe Cys Asp Ser Gln Asp
 35 40 45
 Ala Asp Leu Ala Gln Val Glu Ser Phe Gln Glu Leu Val Arg Lys
 50 55 60

<210> 664
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 664

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250

Trp Ile Gly Leu Ser Arg Glu Gln Gly Gln Pro Trp Lys Trp Ile Asn
1 5 10 15

Gly

<210> 665

<211> 12

<212> PRT

<213> Homo sapiens

<400> 665

Cys Pro Glu Ser Trp Ile Gly Phe Gln Arg Lys Cys
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<210> 666

<211> 16

<212> PRT

<213> Homo sapiens

<400> 666

Asn Phe Leu Leu Arg Tyr Lys Gly Pro Ser Asp His Trp Ile Gly Leu
1 5 10 15

<210> 667

<211> 50

<212> PRT

<213> Homo sapiens

<400> 667

Ala Ser His Leu Arg Leu Leu Ser Ser Trp Asp Tyr Arg Phe Pro Ile
1 5 10 15

Leu Gly Ala Gly Glu Cys Ala Tyr Leu Asn Asp Lys Gly Ala Ser Ser
20 25 30

Ala Arg His Tyr Thr Glu Arg Lys Trp Ile Cys Ser Lys Ser Asp Ile
35 40 45

His Val
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<210> 668

<211> 76

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 668

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Ser Ile Lys Ala Thr Xaa Ile Trp Arg Leu Phe Phe Xaa Ile Leu Thr
20 25 30

Ile Ile Leu Cys Gly Met Val Ala Ala Leu Ser Ala Ile Arg Ala Asn
35 40 45

Cys His Gln Glu Pro Ser Val Cys Ser Ser Ser Cys Met Pro Arg Lys
50 55 60

Leu Asp Trp Phe Ser Lys Lys Val Phe Leu Phe Phe
65 70 75

<210> 669

<211> 39

<212> PRT

<213> Homo sapiens

<400> 669

Glu Gln Leu Glu Glu Leu Glu Leu Lys Lys Lys Asp Phe Ile Lys Ile
1 5 10 15

Leu Glu Ser Val Gln Gly Asn Trp Arg Gln Asn Glu Asp Ser Gly Lys
20 25 30

Gly Pro Gln Arg Ser Cys Leu
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<210> 670

<211> 19

<212> PRT

<213> Homo sapiens

<400> 670

Phe Trp Pro Glu Ser Lys Ile Gln Pro Tyr Lys Asp Met Phe Ser Cys
1 5 10 15

Glu Ile Ile

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<210> 671
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 671
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 1 5 10 15
 Leu Glu Ser Val Gln Gly Asn Trp Arg Gln Asn Glu Asp Ser Gly Lys
 20 25 30
 Gly Pro Gln Arg Ser Cys Leu His Ser Lys Glu His Ser Ile Lys Ala
 35 40 45
 Thr Leu Ile Trp Arg Leu Phe Phe Leu Ile
 50 55

<210> 672
 <211> 36
 <212> PRT
 <213> Homo sapiens
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 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 672
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 20 25 30
 Trp Thr Arg Gln
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<210> 673
 <211> 776
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (709)..(709)
 <223> n equals a,t,g, or c

<220>
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 <222> (738)..(738)
 <223> n equals a,t,g, or c

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<400> 673
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aaccctgata aatgctttaa taattatgcc aaaggaagag tatgagtatt caacatttcc 600
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cgctggtgaa agtaaaagat gctgaagatc agttgggtgc acgagtggng tacatcgaa 720
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<210> 674
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<211> 878
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<212> DNA
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<223> n equals a,t,g, or c
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gaatggcgcc tgatggcgta ttttctcctt acgcatctgt gcgggtattc acaccgcata 180
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gatgtcgaag atcagttggg tgcacgagtg gggtacatcg aactggatct caacagcggt 720
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<211> 150
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<212> DNA
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<213> Homo sapiens
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<210> 676
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<211> 845
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<212> DNA
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<213> Homo sapiens
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<212> DNA

<213> Homo sapiens

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<211> 1055

<212> DNA

<213> Homo sapiens

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<211> 456

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<220>

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<400> 728

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<211> 4767

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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 <211> 488
 <212> DNA
 <213> Homo sapiens

<400> 764
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 <212> DNA
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<400> 767

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<211> 1603

<212> DNA

<213> Homo sapiens

<400> 768

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<211> 1607

<212> DNA

<213> Homo sapiens

<400> 769

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<211> 485

<212> DNA

<213> Homo sapiens

<400> 770

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<211> 2166

<212> DNA

<213> Homo sapiens

<400> 771

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<211> 2165

<212> DNA

<213> Homo sapiens

<400> 772

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<211> 485

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 486

<212> DNA

<213> Homo sapiens

<400> 775

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<211> 485

<212> DNA

<213> Homo sapiens

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<211> 485

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 7013

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<211> 586

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

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<213> Homo sapiens

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<211> 146

<212> DNA

<213> Homo sapiens

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<210> 844
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 <213> Homo sapiens

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<210> 846

<211> 146

<212> DNA

<213> Homo sapiens

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<211> 972

<212> DNA

<213> Homo sapiens

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<211> 976

<212> DNA

<213> Homo sapiens

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<211> 976
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 <211> 695
 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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<400> 853
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 <211> 575
 <212> DNA
 <213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 855

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<210> 856

<211> 161

<212> DNA

<213> Homo sapiens

<400> 856

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<210> 857

<211> 985

<212> DNA

<213> Homo sapiens

<400> 857

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<210> 858

<211> 985

<212> DNA

<213> Homo sapiens

<400> 858

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<210> 859

<211> 985

<212> DNA

<213> Homo sapiens

<400> 859

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<210> 860

<211> 87

<212> DNA

<213> Homo sapiens

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<210> 861

<211> 87

<212> DNA

<213> Homo sapiens

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<211> 808

<212> DNA

<213> Homo sapiens

<400> 862

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<211> 782

<212> DNA

<213> Homo sapiens

<400> 863

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<211> 315

<212> DNA

<213> Homo sapiens

<400> 864

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<210> 865

<211> 315

<212> DNA

<213> Homo sapiens

<400> 865

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<211> 288

<212> DNA

<213> Homo sapiens

<400> 870

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<212> DNA

<213> Homo sapiens

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<211> 2034

<212> DNA

<213> Homo sapiens

<400> 872

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<210> 873

<211> 2787

<212> DNA

<213> Homo sapiens

<400> 873

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<211> 302

<212> DNA

<213> Homo sapiens

<400> 874

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<210> 875

<211> 962

<212> DNA

<213> Homo sapiens

<400> 875

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<210> 876

<211> 232

<212> DNA

<213> Homo sapiens

<400> 876

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<210> 877

<211> 91

<212> DNA

<213> Homo sapiens

<400> 877

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<210> 878

<211> 1993

<212> DNA

<213> Homo sapiens

<400> 878

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<211> 165

<212> DNA

<213> Homo sapiens

<400> 879

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<211> 319

<212> DNA

<213> Homo sapiens

<400> 880

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<210> 881

<211> 585

<212> DNA

<213> Homo sapiens

<400> 881

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<210> 882

<211> 585

<212> DNA

<213> Homo sapiens

<400> 882

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<210> 883

<211> 22459

<212> DNA

<213> Homo sapiens

<400> 883

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 <213> Homo sapiens

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 <212> DNA
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<210> 895

<211> 3408

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (776) .. (776)

<223> n equals a,t,g, or c

<400> 895

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 <212> DNA
 <213> Homo sapiens

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 <211> 3109
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
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 <223> n equals a,t,g, or c

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<210> 915

<211> 507

<212> DNA

<213> Homo sapiens

<400> 915

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<212> DNA

<213> Homo sapiens

<400> 916

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